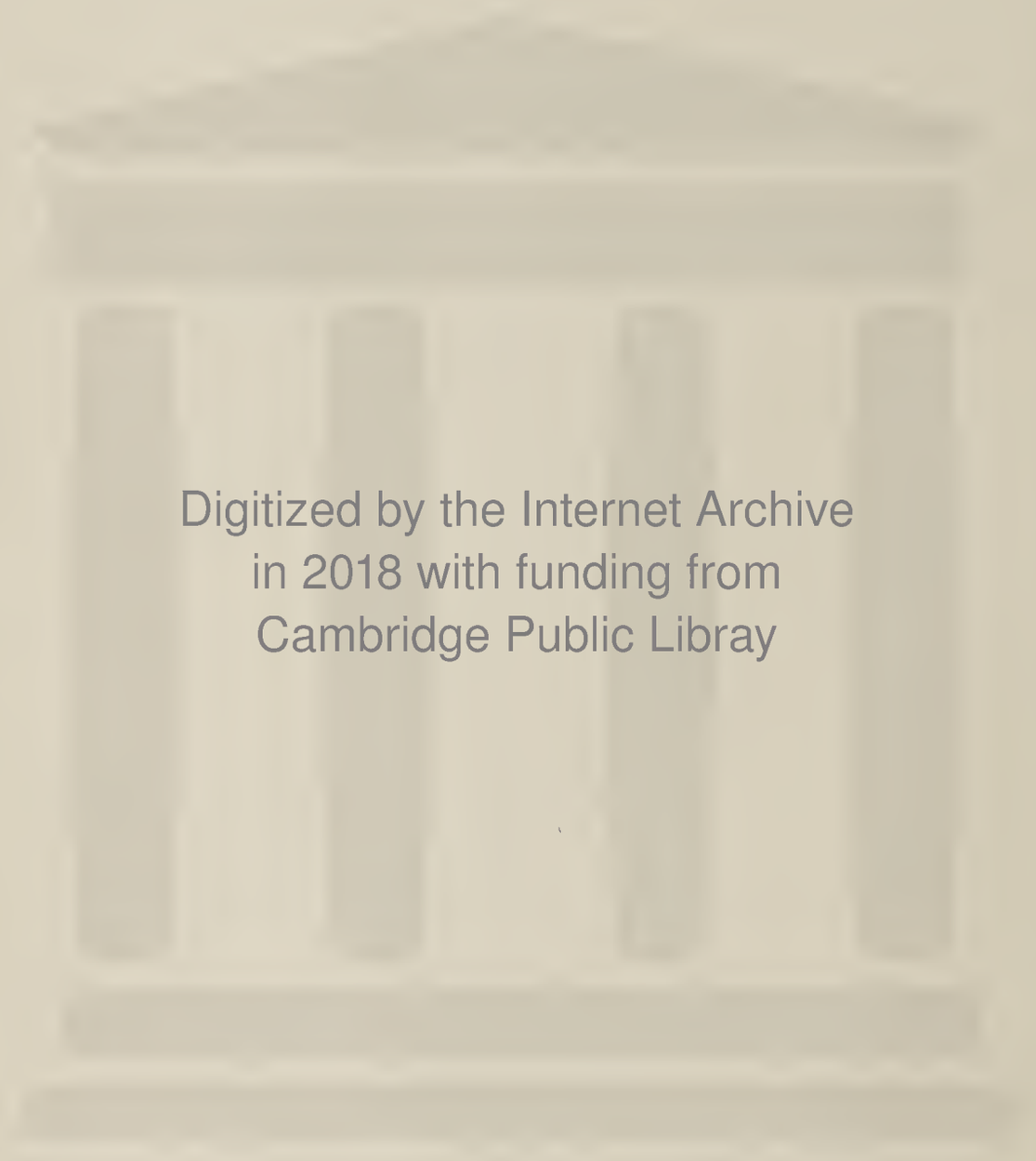

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City of Cambridge

Massachusetts

THE MAYOR'S ADDRESS

AT THE

ORGANIZATION OF THE CITY GOVERNMENT

JANUARY 7, 1901

AND

THE ANNUAL REPORTS

MADE TO THE CITY COUNCIL

FOR THE YEAR 1900

PUBLISHED BY ORDER OF THE CITY COUNCIL
UNDER THE DIRECTION OF THE
CITY CLERK.

J·A·CUMMINGS
PRINTING CO.
172 OLIVER ST.
BOSTON.

ADDRESS

OF

HON. DAVID T. DICKINSON

MAYOR

TO THE

CITY COUNCIL

January 7, 1901

Gentlemen of the City Council: —

We have met here today to take the oath of office for the faithful performance of duty, in accordance with a custom as old as the City, and one which is well founded in reason and necessity. We are to begin our work under the trust which has been committed to us, and it is important that we begin right. No feeling of obligation can be too deep, no high purpose too earnest, with which to approach the tasks we now undertake. In the wise management of our City's interests we each have our individual share to perform, and we can be sure that nothing but our best will satisfy either our citizens or ourselves. The principal purpose of our gathering is to consider sincerely the sentiment which should animate us in our public duties for the ensuing year. While a review of the City's conditions, upon which the future must be built, is of advantage, still the consideration of administrative facts and questions might be dispensed with on this day without serious interference with the transaction of the City's business during the coming year. Messages could later be sent to the City Council, and all the branches and parts of the City Government would continue to manage the public business with promptness and efficiency. But if the determination is not now made to approach our duties with the right sentiment of loyalty, and an unfaltering purpose for faithful service, then the business considerations of the year might as well be left

untouched at this time. We now give expression to this sense of solemn duty, and in that spirit resolve to perform our work.

The principles of municipal government which have been followed in Cambridge have been evolved from the unselfish devotion of those whom she has honored with her trust, and there could be no better time than the beginning of this new century to renew our fealty to them. Our advantages today are all a tribute to the wisdom of the past.

Living within our means and shunning the ways and evils of extravagance have made our policy. In some years expenditures have pressed in great volume upon our City, but an examination of the actions of those who have had charge of its affairs shows that, in the main, the "pay-as-you-go" policy, that is, the meeting of current expenses out of current revenues, has been followed, and that departure therefrom has met with disapproval. While modern civilization, with its increase of wealth and desires, has enlarged its demands upon all cities, and while our own City has been a leader in the progress which has responded to these demands, we have been more guarded than some against securing benefits by a burdensome policy of debt. As a result, our financial condition is sound, and our credit high among all who deal with us. While this is true, to maintain it must always be a jealous care.

Ever since the great stimulus from the beneficence of Mr. Rindge, the horizon of our municipal thought and endeavor has widened. With the increase in scope and magnitude of our municipal affairs has come a somewhat added expense. Under this changed standard of municipal cost, we must still be true to the principles which gave solidity to our financial system, our methods and our prosperity.

As indicating the economy that has been practised by our officials, it should be observed that the current expenses and indebtedness which those officials have made by their voluntary action have not increased commensurately with our added valuation. Our aggregate current expenses and indebtedness, however, have increased somewhat more rapidly than such valuation, but this is due to the State, Metropolitan and County undertakings, which our people have had no direct voice in controlling. These large expenditures, authorized by our Legislature, were necessary in the case of the Metropolitan Sewerage System; and, in the matter of parks and roads, I believe they were called for by an enlightened interest for ourselves and coming generations.

A statement of our financial condition after so many remarkable municipal developments, and at a time when large ones are still under way, is of special interest and importance.

FINANCIAL STATEMENT.

The bonded municipal debt, December 1, 1900, was	$4,614,400 00
The value of the Sinking Fund held therefor	1,021,466 00
Net bonded debt (exclusive of water debt)	$3,592,934 00
The bonded water debt, December 1, 1900, was	$3,302,100 00
The value of the sinking fund held therefor	804,326 58
Net bonded water debt	$2,497,773 42

Net bonded debt created in 1900 :—

Cambridge Bridge	$100,000 00
Alterations and repairs in the Wellington, Gore and Felton Schoolhouses	36,000 00
Filling low lands in Cambridge Cemetery	7,000 00
Parks	100,000 00
Improved sewerage	100,000 00
Extension and widening of streets	21,000 00
Total	$364,000 00

Bonds matured in 1900 :—

Schoolhouse loan	$100,000 00
Net increase of bonded municipal debt in 1900	264,000 00

The aggregate city debt (exclusive of water debt) is 3.85 per cent. on our property valuation.

The valuation in 1900 was :—

Real estate	$76,600,700 00
Personal property	17,865,230 00
Total	$94,465,930 00
Increase in valuation over 1899	$2,923,135 00
Borrowing capacity for 1901	445,992 05
Average net valuation, 1898, 1899, 1900	90,442,070 00

The borrowing capacity and the tax rate as limited by law are computed upon the above average net valuation for the last three years.

As the charges for interest and sinking funds of the water debt are met by the receipts from water rates, the tax rate of the city is not affected by such debt.

Loans outside the debt limit :—

Cambridge Bridge	$150,000 00
Harvard Bridge	400,000 00
Clay lands	97,000 00
Parks	1,200,000 00
Improved sewerage	142,000 00
Total	$1,989,000 00

Although the last mentioned loans were created outside of the debt limit, as established by the General Statute, they become a part of the bonded City debt, with their payment provided for as in the case of the rest of the City debt, and are included in the statement first made under the head of "The bonded municipal debt."

TAXES.

The tax rate for the past ten years has varied $2.50 per $1,000, the lowest rate being $15.00 in 1892, and the highest $17.50 in 1897. Last year the rate was $16.90 per $1,000, showing a reduction of twenty cents over the year previous. It would have been practically the same as the previous year, however, but for the failure of the special commissioners to assess our City for its share of the expense of the Metropolitan Park System. In 1901, not only must we take care of the assessment for this current year but in addition the amount omitted in 1900, an aggregate of $56,889.16.

The net increase in the City debt of $264,000 during the past year will require an additional sum of $16,267, to be paid from the tax levy during the current year, in order to meet the interest and sinking fund charges for the same. These two items alone, aggregating as they do a little over $73,000, will require an addition to the tax rate of about seventy-five cents per $1,000. The increase in the net valuation of the City will allow an increase in expenditure for municipal purposes of about $30,000; but this will not offset,

materially, the probable increase in tax rate as above mentioned, because during the past three years the expenses of the school department have increased annually more than this amount. We should so manage, however, that our rate of taxation the coming year should not be much higher than has occurred at times during the last ten years. The double park assessment may possibly be avoided by an act of the Legistature.

We must remember that we are to feel the expense of the new bridge from this time on, as the charges for interest and sinking fund have commenced. This sense of additional and necessary expenditure will certainly act as a check to the voluntary imposition of a further burden of taxation at this time.

In the matter of an exacting care to avoid a higher general level of expenses, it should be noticed that this is now the firm policy of our State government. We shall, therefore, in careful economy, now be aided instead of hampered by higher authorities outside. We can plan to work out the problem of municipal expenditures, costs and taxes at home, as of old, as a matter within our own hands, in dealing with which a wise, self-governing city can surely satisfy her citizens.

There are some subjects which I think should receive special attention at this time, by reason of their close connection with the City's finances and taxation, and for the sake of examining what return our citizens are to receive from certain expenditures.

CAMBRIDGE BRIDGE.

This is the most important single improvement of our City now under way. Much has been said officially on this subject in order that the City Council and people should have full information upon a work of such magnitude, but the undertaking is so great, the work and expense will continue for such a period, and its results will be of such importance, that reports on this particular subject must for some time be made. Although it is well known that the consent of the proper authorities for building this bridge without a draw has been obtained, no formal report of that fact has been made to the City Council. The Legislature granted the petition for this purpose subject to the approval of the United States War Department. This approval was refused on the ground of the general policy of

the Federal government in the matter of navigable waters. It was under this disappointment and apparent failure that largely through the persistency of my predecessor a petition for a permissive act was then presented and pressed before Congress, and I take pleasure in officially reporting the complete success of this endeavor. This will aid in the convenient use of the bridge, and was, in fact, necessary to the perfect fulfilment of its purpose and mission.

It is estimated that the cost of this bridge when completed will be about $2,000,000. In deciding upon the character of the bridge, which involves this large expense, it seems that the Commissioners acted with foresight and sound judgment. To understand correctly the questions presented to them, it must be borne in mind that the character of this section of the City is in a process of transition, to such an extent, that in the near future most of the old conditions will have disappeared. The duty of the Commissioners would not have been wisely performed if they had allowed old conditions and environment to control the character and cost of this bridge. It will stand as the northern boundary of our River Park, and will be the leading architectural feature of our entire Metropolitan Park System. Its influence in co-operating with our park system to bring a pecuniary return to our City in increased valuation, as well as the direct satisfaction to be obtained from it, appear to justify the extra expense incurred to give it architectural beauty. It is expected that about three years more will be required for its completion.

Contracts have been made for ten piers at a cost of $648,000, and the work of construction has commenced. The next contract will probably be for the abutments on the Cambridge and Boston sides.

The location for the structures of the Elevated Railway Company has not yet been determined, and it will be carefully considered in connection with all the architectural requirements.

One hundred and fifty thousand dollars of forty year bonds have already been issued for this undertaking, and it is expected that during the year a further issue of $500,000 will be made, one-half of which will be the share of the City of Cambridge. The charge for interest and Sinking Fund upon the amount to be issued this year will not be felt until 1902; but the coming burden must be remembered in the consideration of projects and expenditures for this year.

UP-RIVER BRIDGES.

This subject has already been treated in a message by my predecessor to the City Council of last year, and I will only add to what is said therein that you consider the advisability of placing the subject of grades, with approaches to such bridges, and other matters incident thereto, in the hands of the Cambridge Bridge Commission. This would require legislative authority.

PARKS.

Our park project has now become a plan for river-front development in accordance with the natural tendencies of the city's best development in this section. The fruition of the beliefs of those who have labored so earnestly and generously for the city's good in this matter now seem about to be realized in ample measure. This is gratifying when we consider the scale upon which this work has proceeded, and remember that its benefits will be commensurately large. Its ultimate success will also be a satisfaction, because of the doubts which came, as they always will come, regarding large undertakings. A spirit of enterprise and good judgment should combine; either without the other will never secure much progress. Our own completed park plans have brought a pecuniary return to the City. The benefits from additional taxable valuation will soon exceed the charges upon the City for the cost of the undertakings. This is especially true in regard to the effect of Cambridge Field, the improvements along the upper part of the Charles River, and the widening of Boylston Street, which should be considered in connection therewith. It now seems certain that the river development, or Esplanade, will be no exception to this rule, and that the pecuniary benefits therefrom to our City will be satisfactory and permanent. Already one large building is completed upon the Esplanade. It will be followed by others of a similar high standard, and it is profitable to consider what this building means to the City as a specimen case. Its valuation will be upwards of half a million dollars, and the annual revenue to the City therefrom from taxation about $8,500. This annual tax return, at the rate of interest which our City now pays on a forty-year bond, will take care of the interest and Sinking Fund of a loan

amounting to about $190,000, so that the interest and the principal thereof will be paid at maturity. The substantial character of the buildings along this Esplanade will tend to establish such a standard in other parts of the City, a matter of importance at this time, when Cambridge is beginning to pass through a period of reconstruction, with old and cheap buildings making way for costly structures. This is the same development that is noticed in other parts of this metropolitan district. It is reasonable to believe that in no distant time the movement now vigorously begun will be extensive in our City, and that Cambridge will become by general consent one of the most beautiful and attractive residential cities in the world.

We are committed to these great undertakings and shall obtain their benefits only through their wise consummation. No haste that will place an excessive burden on a few years should be made, but whatever will lead to an immediate and large return in added valuation, should be regarded as a business necessity and as wise economy. The same can be said of any comparatively small work, which is a part, and will result in the completion of a larger undertaking that will bring the whole into immediate enjoyment for our people. For this reason it seems that provision should soon be made for the extension of the Esplanade from the present terminus, opposite the end of Erie Street westerly to Brookline Street.

STREETS.

It has been difficult to keep our accepted streets, of which we now have ninety-three miles, in first-class condition, and fault-finding with them was at one time a fashionable custom. During the last few years, however, there has been a general appearance of improvement which our citizens have noticed, and investigation will show that such improvement is substantial and based upon facts which indicate that it will be permanent. This is true as regards both construction and maintenance. In 1899 the City Council took the position, that the revenue derived from the Street Railway Tax under the Act of 1898, should be strictly applied to the permanent construction of streets, as seemed to be contemplated by the Legislative Act and also dictated by urgent need and a wise financial policy. It should be remembered that at that time some of our citizens, whose interest in the good management of our City was well known, had

come to a point where they favored an issue of bonds for the permanent reconstruction of streets. The Street Railway Tax furnished the opportunity for relief, making this improvement possible without an increase of debt. There was some opposition to this course of the City Council at the time, but I think that events have proven its wisdom. This annual revenue, for the present, at least, should be steadily used for this purpose, to the end that our thoroughfares may be put in first-class condition. No other course to accomplish this object seems practicable, as a debt is out of the question. The City has already received from this tax during the years 1899 and 1900 the sum of $124,208.35. The amount for the present year will be $86,582.65.

In the matter of maintenance, the striking improvement which has been effected in the condition and cleanliness of our streets is largely due to the progress of the department in availing itself of improved street machinery. While increased appropriations have assisted, credit is due to my predecessor for his alertness in securing these acquisitions and for urging new and effective methods. The present efficiency of the street department should be maintained, and its recommendations so treated that the scope of its work and purpose may be aided in a reasonable manner. New construction will probably be required this year at some portion of Massachusetts Avenue between Lafayette Square and Harvard Bridge and also as a result of the contemplated widening of Concord Avenue. The Board of Survey, which will soon be constituted, will also aid in the satisfactory development of our system of streets.

NO-LICENSE.

The citizens of Cambridge have voted no-license by the larges majority in its history. While the size of the majority which determines a law should have no influence upon an executive in its enforcement, nevertheless, when that fact occurs together with a change in administration, it is opportune to state that this law will continue to be vigorously enforced.

As I have dwelt at some length upon those matters which seemed to rise naturally and prominently at this time, I shall refer but briefly to some of the department reports, requesting, however, that you give them all your most careful and early examination.

WATER BOARD.

The Board recommends an appropriation from the surplus receipts for the purpose of completing a portion of the unfinished work around Fresh Pond; a reasonable appropriation for purchasing and setting additional meters, to be used in checking waste, and to satisfy the voluntary demand for the same; also an appropriation for cleaning and ditching certain parts of both Stony and Hobb's Brooks.

SCHOOL DEPARTMENT.

The general school statistics for 1900 have been received from the Superintendent, but as they will appear in the report to be made later, they will not be printed at this time.

Although the functions of this department are largely independent from those of our City government, nevertheless, they are so intimately connected and interwoven, that the fullest spirit of harmony and co-operation should prevail in all matters connected with our school system and work.

The Superintendent of Buildings reports that some important sanitary arrangements and changes are being considered in connection with several of our school buildings, and this part of his report is accordingly referred to in this place.

POLICE.

A recommendation is made by this department, that certain promotions be made in the force in order that the number of outside superior officers be increased, to the end that a better system of supervision be established. If this would involve an increase in the number of the force with an added annual expense to the City, it should be carefully considered before its adoption. All necessary steps, however, for the maintenance of good dicipline are of equal benefit to the City and the members of the force. But inquiry should be made to distinguish between defects in system and in the personnel of officials. If the system is reasonably good, no change is necessary but if the defect lies in personal inefficiency, removals therefor are the proper remedy.

FIRE DEPARTMENT.

The department recommends that our present equipment of fire apparatus should be improved by a new hose-wagon and ladder-truck.

HEALTH.

Although the formal report of this department is not required at this time, I would suggest for your consideration under this topic the increase of accommodations for cases of infectious disease, possibly through an arrangement with the Cambridge Hospital, and a provision for the draining of the Wellington and Alewife Brook marshes, in order that the malarial conditions in that neighborhood be abated. The bringing of this latter subject before the Legislature for adequate relief should be considered, so that a comprehensive plan could be adopted not later than 1902.

OVERSEERS OF THE POOR.

There has been an increased net cost on account of the poor of the City, but the Board reports that this is due to the large decreased receipts of the past year, together with the greatly increased expense on account of the insane poor that have come under its charge.

BRIDGE COMMISSIONER.

This department draws special attention to the need of constant effort to keep some of our older bridges in safe condition for travel, and it is manifest that this is imperative while the work of more permanent repair or construction is necessarily postponed.

CITY ENGINEER.

As the report and recommendations of this department bear upon so many interests of the City, such as parks, sewers, schools, health, etc., and as the work of improved sewerage involves such a large expense, the whole report should be carefully considered and its information used in connection with the reports of other departments.

PUBLIC LIBRARY.

The trustees report the need of additional stack-room, in order that the increased number of books in their charge may have proper care.

CEMETERY COMMISSIONERS.

The Commissioners report a favorable opportunity for the purchase of certain property of the Mount Auburn Cemetery Coporation on Coolidge Avenue adjoining Cambridge Cemetery.

The account of the improvements at the Old Burial Ground in Ward One is a feature of this report which cannot fail to be of historical interest to our community.

The completion of such work along certain lines is also recommended.

PUBLIC BUILDINGS.

This department reports that the public buildings of the City, all of which are under its supervision, have a valuation of $2,367,827, and that it has expended during the past year for their care, maintenance, alterations, and for other purposes, about $170,000.

The work of general building inspection, and the enforcement of the building laws cannot be too carefully performed.

The report also states that the number of building permits issued during the past year has been less than during the previous year, but that the total valuation of new construction has increased, tending to show that a higher grade of buildings are being constructed yearly in our City.

ELECTRICAL DEPARTMENT.

Further efforts to obtain Legislative authority for our City to construct municipal conduits are again urged, in order that the overhead wires may be placed therein, and unsightly and obstructive poles removed. I cordially join in this recommendation. Although this measure has failed in the past, its near approach to success last year indicates that such legislation for the public interests can be finally obtained.

GENTLEMEN OF THE CITY COUNCIL :—

Respect for all efforts sincerely made to serve our City best will bring wisdom and harmony out of differences, and help to guide us by the light of truth.

With a resolve that the fair fame and welfare of our City shall be safe in our keeping, let us go forward in our work.

ANNUAL REPORTS

ANNUAL REPORT OF THE CITY AUDITOR

City Auditor's Office,
Cambridge, December 1, 1900.

To the Honorable, the City Council :—

The undersigned herewith presents the annual statement of the receipts and expenditures of the City of Cambridge for the fiscal year beginning on the first day of December, 1899, and ending on the thirtieth day of November, 1900, together with a schedule of the City property.

Respectfully submitted,

HARRY T. UPHAM,
City Auditor.

REPORT OF THE CITY AUDITOR

Balance in the Treasury, November 30, 1899			$172,045 56
The receipts from all sources from December 1, 1899, to November 30, 1900, were as follows:—			
From City Departments		$146,862 00	
Water Works		339,256 07	
Taxes:—			
City	$1,614,404 99		
Corporations	94,967 42		
National Banks	16,760 44		
Street Railway	106,515 94		
		1,832,648 79	
Sale of Bonds:—			
For Cambridge Bridge	100,000 00		
Cemetery Low Lands	7,000 00		
Construction of Streets	21,000 00		
Extension of Water Works	30,000 00		
Improved Sewerage	100,000 00		
Parks	100,000 00		
Remodelling Schoolhouses	36,000 00		
Premium on Loans	31,658 30		
		425,658 30	
Betterments:—			
Parks	5,426 90		
Streets	2,273 62		
		7,700 52	
Perpetual Care of Lots in Cambridge Cemetery		2,712 00	
Commissioners of Sinking Funds for payment of Schoolhouse Loan Bonds		100,000 00	
Temporary Loans in anticipation of Taxes		600,000 00	
Total receipts			$3,454,837 68
			$3,626,883 24
The payments have been as follows:—			
The City Departments		$2,067,439 48	
Water Works		353,607 18	
Cemetery Fund, Trustees of		2,712 00	
Loans:—			
Schoolhouse	$100,000 00		
Temporary	600,000 00		
		700,000 00	
Taxes:—			
Abatements	$33,016 31		
County	85,997 56		
Metropolitan Sewer	73,018 92		
National Bank	7,167 54		
State	48,195 00		
Surplus (Tax sale)	30 00		
		247,425 33	
Total payments			3,371,183 99
Balance unexpended			$255,699 25

Amount brought forward		$255,699 25
This amount is subject to draft as follows:—		
Cambridge Bridge	$47,180 02	
Construction of Streets	2,981 86	
Cemetery Low Lands	3,320 85	
Land Damages	6,899 56	
City Clerk "Classified Index"	375 29	
Improved Sewerage	25,391 65	
Parks	43,093 18	
Premium on Bonds	17,080 77	
Rebuilding Schoolhouses	5,403 05	
Rebuilding Streets	89,110 19	
Water Works	14,575 52	
		255,411 94
Leaving a net balance of		$287 31

CITY FUNDED DEBT.

There have been additions to the City Funded Debt during the year as follows:—

Cambridge Bridge Loan, registered bonds payable in forty years, at an annual interest of three and one-half per cent.	
For the purpose of the construction of the "Cambridge Bridge" and its approaches, and for other purposes, as authorized under the provisions of Chapter 467 of the Legislative Acts of 1898	$100,000 00
City Loan, registered bonds payable in ten years, at an annual interest of three and one-half per cent.	
For the purpose of defraying the expense of making alterations and repairs in the Wellington, Gore and Felton schoolhouses .	36,000 00
Cemetery Loan, registered bonds payable in ten years, at an annual interest of three and one-half per cent	
For the purpose of filling low lands in Cambridge Cemetery .	7,000 00
Park Loans, registered bonds payable in forty years, at an annual interest of three and one-half per cent.	
For the purpose of paying for property purchased, taken or held for a public park or esplanade as authorized by Chapter 341 of the Acts of 1892, Chapter 337 Acts of 1893, and Acts in amendment thereof and in addition thereto, and also for defraying the expense of constructing such park or esplanade and for any purpose incident to the protection, enlargement or advancement or a public park or esplanade in said City of Cambridge, as authorized by Chapter 221 of the Acts of the year 1899 . .	100,000 00
Sewer Loan, registered bonds payable in thirty years, at an annual interest of three and one-half per cent	
For the purpose of constructing Sewers, as authorized by Chapter 189 and 473 of the Acts of 1899	100,000 00
Street Loan, registered bonds payable in twenty years, at an annual interest of three and one-half per cent.	
For the purpose of defraying the cost of constructing Inman Court, Boylston, Magee and Pleasant Streets	21,000 00
	$364,000 00
There has been a decrease in the City Debt by the payment of matured bonds as follows:—	
Schoolhouse Loan, coupon bonds issued May 1, 1890, at an annual interest of four per cent.	100,000 00
Total	$264,000 00

	1899	1900	Increase.
Funded City Debt.	$4,350,400 00	$4,614,400 00	$264,000 00
Sinking Fund.....	930,733 90	1,021,466 00	90,732 10
Net Funded City Debt.....	$3,419,666 10	$3,592,934 00	$173,267 90

The following is a statement of the total funded debt of the City, with the rates of interest thereon :—

BRIDGE LOAN.

Date of Issue.	Rate of Interest.	When Due.	Amount.	Total.
Oct. 1, 1887.....	4 per cent.—30 yrs....	Oct. 1, 1917.....	$10,000 00	
July 1, 1888.....	4 " —30 "	July 1, 1918.....	100,000 00	
Sept. 1, 1888.....	4 " —30 "	Sept. 1, 1918.....	100,000 00	
Mar. 1, 1889.....	4 " —30 "	Mar. 1, 1919.....	115,000 00	
Nov. 1, 1890.....	4 " —30 "	Nov. 1, 1920.....	5,000 00	
July 1, 1891.....	4 " —30 "	July 1, 1921.....	60,000 00	
July 1, 1891.....	4 " —10 " .. .	July 1, 1901.....	15,000 00	
Aug. 1, 1893.... ...	4 " —30 "	Aug. 1, 1923.....	10,000 00	
July 1, 1899.....	3½ " —40 "	July 1, 1939.. ...	50,000 00	
July 2, 1900.....	3½ " —40 " ...	July 2, 1940.....	100,000 00	$565,000 00

BUILDING LOAN.

May 2, 1892.....	4 per cent.—10 yrs....	May 2, 1902.....	$20,000 00	
Nov. 1, 1893.....	4 " —10 " ...	Nov. 1, 1903.....	40,000 00	
Aug. 1, 1894.....	4 " —20 "	Aug. 1, 1914.....	118,000 00	
Oct. 1, 1895.....	4 " —20 "	Oct. 1, 1915.....	60,000 00	
Oct. 1, 1896	4 " —20 "	Oct. 1, 1916.....	103,000 00	$341,000 00

CAMBRIDGE CEMETERY LOAN.

Aug. 1, 1885.....	4 per cent.—20 yrs....	Aug. 1, 1905.....	$65,000 00	
Nov. 1, 1900.....	3½ " —10 "	Nov. 1, 1910.....	7,000 00	$72,000 00

CITY LOAN.

Aug. 1, 1894.....	4 per cent.—10 yrs....	Aug. 1, 1904.....	$52,000 00	
Aug. 1, 1898.....	3½ " —10 "	Aug. 1, 1908.....	4,900 00	
July 1, 1899.....	3½ " —10 "	July 1, 1909.....	45,000 00	
Nov. 1, 1899.....	3½ " —10 "	Nov. 1, 1909.....	32,000 00	
Nov. 1, 1900.....	3½ " —10 "	Nov. 1, 1910.....	36,000 00	$169,900 00

CLAY LAND LOAN.

July 1, 1896.....	4 per cent.—15 yrs....	July 1, 1911.....	$50,000 00	
Nov. 1, 1897.... ...	3½ " —15 "	Nov. 1, 1912.....	20,000 00	
Aug. 1, 1898.....	3½ " —15 "	Aug. 1, 1913.....	10,000 00	
July 1, 1899.....	3½ " —15 "	July 1. 1914.....	17,000 00	$97,000 00

Amount carried forward $1,244,900 00

Amount brought forward $1,244,900 00

PARK LOAN.

Date of Issue.	Rate of Interest.	When Due.	Amount.	Total.
Feb. 1, 1894.....	4 per cent.—30 yrs....	Feb. 1, 1924.....	$360,000 00	
Aug. 1, 1895.....	4 " —40 "	Aug. 1, 1935.....	100,000 00	
Feb. 1, 1896...	4 " —40 "	Feb. 1, 1936.....	100,000 00	
Aug. 1, 1896.....	4 " —30 " ...	Aug. 1, 1926.....	100,000 00	
Oct. 1, 1896.....	4 " —30 "	Oct. 1, 1926.....	40,000 00	
Sept. 1, 1897.....	3½ " —40 "	Sept. 1, 1937.....	100,000 00	
Nov. 1, 1897.....	3½ " —40 "	Nov. 1, 1937.	50,000 00	
June 1, 1898.....	3½ " —40 "	June 1, 1938.....	50,000 00	
Aug. 1, 1898.....	3½ " —40 "	Aug. 1, 1938.....	100,000 00	
Aug. 1, 1899.....	3½ " —40 "	Aug. 1, 1939.....	100,000 00	
July 2, 1900.....	3½ " —40 "	July 2, 1940.....	50,000 00	
Nov. 1, 1900.....	3½ " —40 "	Nov. 1, 1940.....	50,000 00	$1,200,000 00

PAVING LOAN.

Nov. 1, 1892.....	4 per cent.—10 yrs....	Nov. 1, 1902.....	$50,000 00	
Oct. 1, 1897.....	3½ " —10 "	Oct. 1, 1907.....	20,000 00	$70,000 00

SCHOOLHOUSE LOAN.

Jan. 1, 1891.....	4 per cent.—10 yrs....	Jan. 1, 1901.....	$100,000 00	
July 1, 1891.....	4 " —10 "	July 1, 1901.....	60,000 00	
Nov. 1, 1892.....	4 " —10 "	Nov. 1, 1902.....	20,000 00	
Oct. 1, 1896.....	4 " —20 "	Oct. 1, 1916.	6,000 00	
July 1, 1897.....	3½ " —20 "	July 1, 1917.....	100,000 00	
Nov. 1, 1897.....	3½ " —10 "	Nov. 1, 1907.....	9,500 00	
May 2, 1898.....	3½ " —20 " ...	May 2, 1918.....	100,000 00	
June 1, 1898.....	3½ " —20 "	June 1, 1918.....	50,000 00	
Aug. 1, 1898.....	3½ " —20 "	Aug. 1, 1918.....	142,000 00	
July 1, 1899.....	3½ " —20 "	July 1, 1919.....	42,000 00	
Nov. 1, 1899.....	3½ " —20 "	Nov. 1, 1919.....	13,000 00	$642,500 00

SEWER LOAN.

July 1, 1873.....	6 per cent.—30 yrs....	July 1, 1903.....	$136,000 00	
July 1, 1874.....	6 " —30 "	July 1, 1904.....	295,000 00	
July 1, 1875.....	6 " —30 "	July 1, 1905.....	144,000 00	
Nov. 1, 1887.....	4 " —20 "	Nov. 1, 1907.....	30,000 00	
Nov. 1, 1889.....	4 " —20 "	Nov. 1, 1909.....	22,000 00	
May 1, 1890.....	4 " —20 "	May 1, 1910.....	15,000 00	
July 1, 1891.... ..	4 " —20 "	July 1, 1911.....	15,000 00	
Aug. 1, 1894.....	4 " —30 "	Aug. 1, 1924.....	75,000 00	
Oct. 1, 1895.....	4 " —30 " . .	Oct. 1, 1925.....	60,000 00	
Oct. 1, 1896.....	4 " —20 "	Oct. 1, 1916.....	75,000 00	
Nov. 1, 1899	3½ " —30 "	Nov. 1, 1929.....	42,000 00	
July 2, 1900.....	3½ " —30 "	July 2, 1930.....	100,000 00	$1,009,000 00

STREET LOAN.

May 2, 1892.....	4 per cent.—10 yrs....	May 2, 1902.....	$55,000 00	
Aug. 1, 1894.....	4 " —20 "	Aug. 1, 1914.....	30,000 00	
Oct. 1, 1895.....	4 " —20 "	Oct. 1, 1915... ...	60,000 00	
Oct. 1, 1896.....	4 " —20 "	Oct. 1, 1916.....	137,000 00	
Nov. 1, 1897.....	3½ " —10 "	Nov. 1, 1907.....	11,000 00	
May 2, 1898.....	3½ " —20 "	May 2, 1918.....	15,000 00	
Nov. 1, 1899.....	3½ " —20 "	Nov. 1, 1919.....	5,000 00	
Nov. 1, 1900.....	3½ " —20 "	Nov. 1, 1920.....	21,000 00	$334,000 00

STREET WIDENING LOAN.

July 1, 1873.....	6 per cent.—30 yrs....	July 1, 1903.....	$10,000 00	
July 1, 1874.....	6 " —30 "	July 1, 1904.....	90,000 00	
July 1, 1875.....	6 " —30 "	July 1, 1905.....	14,000 00	$114,000 00

TOTAL FUNDED CITY DEBT $4,614,400 00

THE FUNDED WATER DEBT.

There has been an addition to the Water Debt during the year by the issue of registered 3½ per cent. bonds as follows:—

Nov. 1, 1900, due Nov. 1, 1920 . . . . . $30,000 00

	1899.	1900.	Increase.	Decrease.
Funded Water Debt.....	$3,272,100 00	$3,302,100 00	$30,000 00	.....
Sinking Fund of Water Works.....	665,583 82	804,326 58	138,742 76	.....
Net Funded Water Debt.....	$2,606,516 18	$2,497,773 42		$108,742 76

Following is a statement of the total Funded Water Debt of the city, with rates of interest thereon:—

Date of Issue.	Rate of Interest.	When Due.	Amount.	Total.
Nov. 1, 1886.....	3½ per cent. — 20 years..	Nov. 1, 1906.....	$43,000 00	
Oct. 1, 1887.....	4 " — 20 " ..	Oct. 1, 1907.....	90,000 00	
Nov. 1, 1887.....	4 " — 20 " ..	Nov. 1, 1907.....	22,000 00	
July 1, 1888.....	4 " — 20 " ..	July 1, 1908.....	46,000 00	
Aug. 1, 1888	4 " — 20 " ..	Aug. 1, 1908.....	25,000 00	
July 1, 1889.....	4 " — 20 " ..	July 1, 1909.....	20,000 00	
May 1, 1885.....	4 " — 25 " ..	May 1, 1910.....	288,000 00	
July 1, 1890.....	1 " — 20 " ..	July 1, 1910.....	75,000 00	
Sept. 1, 1890.....	4 " — 20 " ..	Sept. 1, 1910.....	125,000 00	
Jan. 1, 1891.....	4 " — 20 " ..	Jan. 1, 1911.....	20,000 00	
Oct. 1, 1891.....	4 " — 20 " ..	Oct. 1, 1911.....	35,000 00	
Jan. 1, 1892.....	4 " — 20 " ..	Jan. 1, 1912.....	150,000 00	
May 2, 1892	4 " — 20 " ..	May 2, 1912.....	75,000 00	
Nov. 1, 1892.....	4 " — 20 " ..	Nov. 1, 1912... ..	45,000 00	
Feb. 1, 1893.....	4 " — 20 " ..	Feb. 1, 1913.....	100,000 00	
Aug 1, 1893.....	4 " — 20 " ..	Aug. 1, 1913.....	50,000 00	
April 1, 1895.....	4 " — 20 " ..	April 1, 1915.....	200,000 00	
Aug. 1, 1895.....	4 " — 20 " ..	Aug. 1, 1915.....	200,000 00	
April 1, 1894.....	4 " — 30 " ..	April 1, 1924.....	300,000 00	
April 1, 1896.....	4 " — 20 " ..	April 1, 1916.....	100,000 00	
July 1, 1896.....	4 " — 20 " ..	July 1, 1916.....	200,000 00	
Aug. 1, 1896.....	4 " — 20 " ..	Aug. 1, 1916.....	100,000 00	
Oct. 1, 1896.....	4 " — 20 " ..	Oct. 1, 1916.....	265,100 00	
April 1, 1897.....	3½ " — 20 " ..	April 1, 1917.....	200,000 00	
July 1, 1897.....	3½ " — 20 " ..	July 1, 1917.....	100,000 00	
Nov. 1, 1897.....	3½ " — 20 " ..	Nov. 1, 1917.....	75,000 00	
Dec. 1, 1897.....	3½ " — 20 " ..	Dec. 1, 1917	140,000 00	
May 2, 1898.....	3½ " — 20 " ..	May 2, 1918.....	50,000 00	
June 1, 1898.....	3½ " — 20 " ..	June 1, 1918.....	60,000 00	
Nov. 1, 1898.....	3½ " — 20 " ..	Nov. 1, 1918.....	50,000 00	
Nov. 1, 1899.....	3½ " — 20 " ..	Nov. 1, 1919.....	23,000 00	
Nov. 1, 1900.....	3½ " — 20 " ..	Nov. 1, 1920.....	30,000 00	$3,302,100 00

RECAPITULATION.

Amount of funded City Loan upon which interest is at 6 per cent.	$689,000 00	
Amount of funded City Loan upon which interest is at 4 per cent.	2,433,000 00	
Amount of funded City Loan upon which interest is at 3½ per cent.	1,492,400 00	
		$4,614,400 00
Amount of Water Loan upon which interest is at 4 per cent.	$2,531,100 00	
Amount of Water Loan upon which interest is at 3½ per cent.	771,000 00	
		$3,302,100 00

Temporary loans for the past twelve years, and interest upon the same: —

Year.	Temporary Loan.	Interest paid upon Loan.	Year.	Temporary Loan.	Interest paid upon Loan.
1889	$490,000	$5,919 54	1895	$550,000	$6,194 64
1890	425,000	7,570 57	1896	786,000	12,344 07
1891	465,600	10,796 25	1897	600,000	6,186 40
1892	516,000	8,015 51	1898	500,000	9,642 86
1893	541,850	11,560 32	1899	550,000	6,968 86
1894	125,000	3,106 15	1900	600,000	9,961 96

THE TRUST FUNDS

Assumed by the City are held by trustees, and interest is paid upon them at the rate of 6 per cent. annually, as follows: —

Name of Fund.	Amount.	Interest.
Daniel White Charity Fund	$5,000	At 6 per cent $300
Dowse Institute Fund	10,000	At 6 per cent 600
Sanders Temperance Fund	10,000	At 6 per cent 600
	$25,000	$1,500

CEMETERY FUND.

Amount of Fund Nov. 30, 1899		$46,414 30
RECEIVED.		
For perpetual care of lots in Cambridge Cemetery	$2,712 00	
Interest on investments	1,768 51	
	$4,480 51	
EXPENDED.		
For care of lots in Cambridge Cemetery	$1,733 26	
		2,747 25
Amount of Fund Nov. 30, 1900		$49,161 55

The Fund is held in trust and is invested as follows: —

City of Cambridge Bonds	$44,400 00	
Cambridgeport Savings Bank	4,761 55	
		$49,161 55

SINKING FUND "HARVARD BRIDGE."

Amount of Fund Nov. 30, 1899	$100,726 04
Interest accumulations (1900)	3,553 00
Appropriation for 1900	8,000 00
	$112,279 04

SINKING FUND "PARK."

Amount of Fund Nov. 30, 1899	$62,170 52
Interest accumulations (1900)	2,194 99
Appropriation for 1900	17,500 00
	$81,865 51

SINKING FUND "CLAY LAND."

Amount of Fund Nov. 30, 1899	$10,302 43
Interest accumulations (1900)	363 72
Appropriation for 1900	4,850 00
	$15,516 15

SINKING FUND "CAMBRIDGE BRIDGE."

Amount of Fund Nov. 30, 1900	$625 00

SINKING FUND "IMPROVED SEWERAGE."

Amount of Fund Nov. 30, 1900	$840 00

SINKING FUND "GENERAL."

Amount of Fund Nov. 30, 1899	$757,534 91
Interest accumulations (1900)	33,296 39
Appropriation for 1900	119,509 00
	$910,340 30

EXPENDED.

For Commissioners of Sinking Funds	100,000 00
Amount of Fund Nov. 30, 1900	$810,340 30

COMMISSIONERS OF SINKING FUNDS.

Amount of Funds Nov. 30, 1899		$930,733 90
Harvard Bridge	$100,726 04	
Park	62,170 52	
Clay Land	10,302 43	
General	757,534 91	
	$930,733 90	

RECEIVED.

From City Treasurer, appropriation for 1900:			
Harvard Bridge	$8,000 00		
Park	17,500 00		
Clay Land	4,850 00		
General	119,509 00		
Cambridge Bridge	625 00		
Improved Sewerage	840 00		
		$151,324 00	
Interest accumulations		39,408 10	
			190,732 10
			$1,121,466 00

EXPENDED.

For matured School-house Bonds	100,000 00
Amount of Fund Nov. 30, 1900	$1,021,466 00

TRUSTEES OF SINKING FUND OF WATER WORKS.

Amount of Fund Nov. 30, 1899		$665,583 82
From City Treasurer, for amount due and appropriated by the City Council from the Revenue of the Water Works	$125,089 12	
Interest accumulations	13,653 64	
		138,742 76
Amount of Fund Nov. 30, 1900		$804,326 58

ABATEMENT — TAXES.

No appropriation is made for abatements, as the Assessors are expected to allow in the overlay an amount sufficient to cover the same.

The total amount of tax abatements allowed was	$82,275 10
The overlay for 1900 was	44,043 75
Deficit	$38,231 35

The abatements allowed by the City Collector on certificates of the Assessors were as follows: —

	Real.	Personal.	Polls.	Total.
Tax of 1893	.....	.....	$1 00	$1 00
" " 1894	.....	$3 16	.....	3 16
" " 1895	.....	65	.....	65
" " 1896	.....	13 59	8 00	21 59
" " 1897	.....	230 75	20 00	250 75
" " 1898	$36 08	188 78	34 00	258 86
" " 1899	8,317 20	4,120 62	86 00	12,523 82
" " 1900	7,182 29	12,497 18	180 00	19,859 47
Street Watering	.....	.....	.....	86 60
	$15,535 57	$17,054 73	$329 00	$33,005 90

TAXES.

The amount of taxes assessed by the Board of Assessors on the real and personal estates and polls of Cambridge, for the year 1900, was as follows: —

Valuation of real estate	$76,600,700.00
Valuation of personal estate	17,865,230.00
	$94,465,930.00
Assessed at $16.90 per $1,000 gives	$1,596,474.217
25,117 polls at $2	50,234.00
Bank stock (non-residents separately assessed)	6,576.973
	$1,653,285.19

The tax is divided as follows: —

For City purposes *	$1,395,452.98
County assessments	85,997.56
Overlay	44,043.757
State assessments	121,213.92
State charge for non-resident bank stock	6,576.973
	$1,653,285.19

* To meet the city expenses the income from various departments is added to this sum raised by taxation.

Increase in number of polls since last year: —

122 polls at $2	$244.00
Increase in real estate valuation	2,049,900.00
Increase in personal valuation	873,235.00
Gain in valuation since last year	$2,923,379.00
Number of houses in 1900	13,713
Number of houses in 1899	13,588
Number of houses built during the past year	125
Number of horses assessed	4,674
Number of cows assessed	188
Number of swine assessed	58

POLLS AND VALUATION OF POLLS AND ESTATES, MAY 1, 1898.

Wards.	Polls.	Valuation of Polls.	Personal.	Real Estate.	Total Real and Personal.	Dwellings.	Total Tax.
One.....	4,145	$8,290 00	$6,546,050	$20,459,700	$27,005,750	2,632	$451,184 30
Two.....	7,307	14,614 00	3,525,795	16,259,200	19,784,995	3,572½	339,087 918
Three.....	3,751	7,502 00	2,027,245	9,693,500	11,720,745	1,609	199,722 218
Four.....	5,937	11,874 00	2,547,100	14,854,700	17,401,800	3,333	297,263 52
Five.....	3,488	6,976 00	1,996,800	11,641,000	13,637,800	2,327	230,635 92
Totals.....	24,628	$49,256 00	$16,642,990	$72,908,100	$89,551,090	13,473½	$1,517,893 876

POLLS AND VALUATION OF POLLS AND ESTATES, MAY 1, 1899.

Wards.	Polls.	Valuation of Polls.	Personal.	Real Estate.	Total Real and Personal.	Dwellings.	Total Tax.
One.....	4,204	$8,408 00	$7,186,200	$21,064,600	$28,250,800	2,706	$491,496 68
Two.....	7,554	15,108 00	3,642,275	16,670,800	20,313,075	3,586	362,461 5825
Three.....	3,783	7,566 00	2,030,820	9,802,400	11,833,220	1,604	209,914 062
Four.....	5,905	11 810 00	2,418,700	15,156,400	17,575,100	3,313	312,344 21
Five.....	3,549	7,098 00	1,714,000	11,856,600	13,570,600	2,379	239,155 26
Totals.....	24,995	$49,990 00	$16,991,995	$74,550,800	$91,542,795	13,588	$1,615,371 7945

POLLS AND VALUATION OF POLLS AND ESTATES, MAY 1, 1900.

Wards.	Polls.	Valuation of Polls.	Personal.	Real Estate.	Total Real and Personal.	Dwellings.	Total Tax.
One.....	4,229	$8,458 00	$7,746,700	$21,681,700	$29,428,400	2,792	$505,797 96
Two.....	7,690	15,380 00	3,767,685	16,986,500	20,754,185	3,716	366,125 7265
Three.....	3,717	7,434 00	2,053,245	10,002,900	12,056,145	1,608	211,182 8505
Four.....	5,717	11,434 00	2,502,000	15,736,400	18,238,400	3,342	319,662 96
Five.....	3,764	7,528 00	1,795,600	12,193,200	13,988,800	2,255	243,938 72
Totals.....	25,117	$50,234 00	$17,865,230	$76,600,700	$94,465,930	13,713	$1,646,708 2170

Statement of the valuations of the personal property and real estate of the City of Cambridge, with the number of poles, dwellings, and rate of taxation for the past ten years :—

Year.	Polls.	Personal.	Real Estate.	Total.	Dwellings.	Rate per $1,000.
1890	19,221¾	$15,339,925	$52,235,000	$67,574.925	10,615	$15 60
1891	20,731¼	16,508,770	54,167,914	70,676,684	10,932	15 50
1892	22,013¼	17,687,595	56,668,100	74,355,695	11,359	15 00
1893	22,752	17,511,089	58,782,900	76,293,989	11,768	16 40
1894	22,172	16,658,320	60,877,300	77,535,620	12,262	15 80
1895	22,781	16,607,360	64,303,700	80,911,060	12,305	15 70
1896	23,847	15,914,995	67,835,100	83,750,095	12,723	15 10
1897	24,407	16,302,545	70,339,200	86,641,745	13,217	17 50
1898	24,628	16,642,990	72,908,100	89,551,090	13,473	16 40
1899	24,995	16,991,995	74,550,800	91,542,795	13,588	17 10
1900	25,117	17,865,230	76,600,700	94,465,930	13,713	16 90

Abatements and discounts upon taxes for the past ten years, and amount of tax uncollected December 1, 1900 :—

Year.	Total Tax.	Total Abatement.	Total Discounts.	Amount of Tax uncollected December 1, 1900.
1889	$1,088,374 60	$20,982 71	$28,081 09	.....
1890	1,099,741 38	20,966 82	28,012 44	.....
1891	1,143,712 67	21,343 12	.....	.....
1892	1,240,186 50	21,636 54	.....	.....
1893	1,303,639 84	24,678 10	.....	.....
1894	1,278,899 72	26,926 07	.....	.....
1895	1,324,613 76	19,427 40	.....	$4,209 17
1896	1,321,932 65	17,922 54	.....	19,193 12
1897	1,574,047 50	22,081 73	.....	27,670 12
1898	1,527,863 88	27,566 98	.....	30,361 48
1899	1,623,592 35	35,317 61	.....	30,062 03
1900	1,654,588 36	33,005 90	.....	317,314 16

The valuation of estates in this City, for the years hereinbefore mentioned, are the same as originally made by the Board of Assessors, during those years, and the same figures were reported by that Board to the Tax Commissioners for each of the years respectively. These valuations were subject to changes in each year, after such report was made, as shown by the following :—

Net valuations of estates in the City of Cambridge, for the past three years, after adding the amounts of all supplementary warrants and deducting therefrom all abatements :—

Year.	Total Valuation.	Abatements.	Net Valuation.
1898	$89,883,090	$1,841,780	$88,041,310
1899	91,596,491	1,642,357	89,954,134
1900	94,495,230	1,164,465	93,330,765
	$275,974,811	$4,648,602	$271,326,209

BORROWING CAPACITY.

The average net valuation of the City of Cambridge for the years 1898, 1899 and 1900			$90,442,070 00
This last sum represents the amount upon which the limit of the rate of taxation, and also of municipal indebtedness is fixed under the provisions of Chapter 312 of the Acts of the year 1885.			
2½ per cent. on same is			$2,261,051 75
The entire City Debt is		$4,614,400 00	
Of this amount the following loans are not within the legal debt limit, being exempted by the following Acts of the Legislature :—			
Cambridge Bridge Loan. Acts of 1898, Chapter 467 . . .	$150,000 00		
Clay Land Loan. Acts of 1896, Chapter 175 . . .	97,000 00		
Harvard Bridge Loan. Acts of 1887, Chapter 282; Acts of 1888, Chapter 73; Acts of 1891, Chapter 311 . .	400,000 00		
Park Loan. Acts of 1892, Chapter 341; Acts of 1893, Chapter 337; Acts of 1894, Chapter 89; Acts of 1897, Chapter 469; Acts of 1899, Chapter 221 . .	1,200,000 00		
Sewer Loan. Acts of 1899, Chapter 189; Acts of 1899, Chapter 473 . .	142,000 00		
		1,989,000 00	
		2,625,400 00	
The entire Sinking Fund is . . .	$1,021,466 00		
Of this amount there should be deducted on account of Exempted Loans :—			
"Harvard Bridge" . .	$112,279 04		
"Park"	81,865 51		
Clay Lands . . .	15,516 15		
Cambridge Bridge . .	625 00		
Improved Sewerage . .	840 00		
	211,125 70		
Net Sinking Fund . .		810,340 30	
Net City Debt, December 1, 1900			1,815,059 70
Borrowing capacity for City purposes, December 1, 1900 . .			$445,992 05

ACTS OF 1885, CHAPTER 312.

"AN ACT TO LIMIT MUNICIPAL DEBT OF AND THE RATE OF TAXATION IN CITIES.

"Be it enacted, etc., as follows: —

"SECTION 1. The taxes assessed on property in any city, except the City of Boston, exclusive of State Tax, County Tax and sums required by law to be raised on account of the City Debt, shall not exceed in any year twelve dollars on every one thousand dollars of the average of the assessors' valuations of the taxable property therein for the preceding three years, the valuation being first reduced by the amount of all abatements allowed thereon, previous to the thirty-first day of December in the year preceding said assessment, and any order or appropriation requiring a larger assessment than is herein limited shall be void.

"SECT. 2. The limit of indebtedness of cities shall hereafter be two and one-half per cent. on the average valuation prescribed in Section one of this act."

TAX LEVY.

Average net valuation for 1898, 1899 and 1900	$90,442,070 00
Assessed at $12 per $1,000 gives	1,085,304 84

Which is the legal limit of taxation for municipal purposes for 1900, outside of the Sinking Fund requirements, Interest on the Debt and State and County Tax, unless advantage is taken of the following Legislative Act of 1893: —

ACTS OF 1893, CHAPTER 247.

"AN ACT AUTHORIZING ASSESSORS IN CITIES OF LESS THAN ONE HUNDRED THOUSAND INHABITANTS TO USE THE VALUATION OF THE YEAR PRECEDING AS A BASIS OF TAXATION.

"Be it enacted, etc., as follows: —

"SECTION 1. In every city containing less than one hundred thousand inhabitants, the taxes assessed on property, exclusive of State Tax, County Tax and sums required by law to be raised on account of City Debt, shall not exceed in any year twelve dollars on every one thousand dollars of the assessors' valuation of the taxable property therein for the preceding year, said valuation being first reduced by the amount of all abatements allowed thereon previous to the thirty-first day of December in the year preceding said assessment, and any order or appropriation requiring a larger assessment than is herein limited shall be void; but, the City Council of any city coming within the provisions of this Act, may, in any year, decide that the taxes assessed shall be raised in accordance with the provisions of Section one of Chapter three hundred and twelve, of the Acts of the year eighteen hundred and eighty-five."

In which case the net valuation for 1900 being	$93,330,765 00
Assessed at $12 per $1,000 gives	1,119,969 18

BALANCE SHEET OF THE CITY OF CAMBRIDGE, DECEMBER 1, 1900, SHOWING ASSETS AND LIABILITIES.

	Assets	Liabilities.
Betterments	$562 93	.....
Cemetery Fund	49,161 55	.....
City Debt (Contingent)	.....	$200,000 00
City of Cambridge (City Property)	5,478,916 96	.....
City Treasurer (Cash)	255,699 25	.....
Daniel White Charity (Trust Fund)	.....	5,000 00
Dowse Institute Fund (Trust Fund)	.....	10,000 00
Funded City Debt	.....	4,614,400 00
Funded Water Debt	.....	3,302,100 00
Park Betterments	73,094 23	.....
Park Betterments Lien	14,117 69	.....
Sanders Temperance Fund (Trust Fund)	.....	10,000 00
Sinking Funds	1,021,466 00	.....
Sinking Fund of Water Works	804,326 58	.....
Taxes due the City	428,810 08	.....
Tax Liens	15,805 80	.....
Tax Sale "Surplus"	.....	461 07
	$8,141,961 07	$8,141,961 07

ESTIMATED REVENUE AND ACTUAL REVENUE FOR THE YEAR ENDING NOVEMBER 30, 1900.

	Actual.	Estimated.
Bridge Department	$500 00	$542 35
Cemetery Department	19,500 00	16,155 07
City Clerk Department	2,600 00	3,003 70
Contingent Fund	2,869 01	2,924 01
Health Department	.....	172 52
Fire Department	100 00	100 00
Inspection of Milk and Vinegar	150 00	149 00
Inspection of Wires	100 00	315 96
Interest	9,000 00	9,705 36
Lamp Department	.....	3 00
Law Department	500 00	500 00
Overseers of the Poor	18,550 00	16,294 75
Park Department	3,469 07	3,596 54
Plumbers' Examiners	.....	35 50
Police Department	6,000 00	6,064 38
Public Library	5,000 00	5,177 59
Public Property	6,600 00	6,640 82
School Department	6,000 00	6,102 90
Sealer of Weights and Measures	525 00	498 00
Sewer Department	15,300 00	9,447 91
State Aid	15,000 00	16,529 82
Stationery and Printing	1,000 00	982 17
Street Department	37,940 20	39,285 87
Treasury Department	2,300 00	2,634 78
Water Works	328,500 00	339,256 07
Sale of City Lands	.....	.....
Taxes:		
Corporation	100,000 00	94,967 42
National Bank	7,000 00	9,592 90
Taxes of 1900	1,404,588 36	1,337,274 20
Old Taxes	250,000 00	268,760 24
Street Railway	20,000 00	19,933 29
	$2,263,091 64	$2,216,646 12

After the annual appropriations had been made, the following additional appropriations were made and provided for by City Loans, viz. :—

Cambridge Bridge	$100,000 00
Cemetery Low Lands	7,000 00
Alterations in Wellington, Gore and Felton Schoolhouses	37,000 00
New Schoolhouse in Ward One	80,000 00
Extension of Inman Court	6,000 00
Extension of Pleasant Street	6,000 00
Improved Sewerage	42,000 00
Parks	50,000 00
	$328,000 00

Of this amount bonds to the amount of $247,000.00 were issued.

TRANSFERS.

The following transfers were made from the appropriations mentioned, to make up deficiencies occurring in the appropriations to which transfers were made, viz. :—

From the Appropriation for	Amounts.	To the Appropriation for	Amounts.
Contingent Fund	$8,550 00	Bridge Department	$725 00
		City Clerk Department	250 00
		Election Expenses	150 00
		Electrical Department, Wires	400 00
		Health Dept., Temporary Hospital	350 00
		Law Department	50 00
		Outside Aid Department	2,000 00
		House Offal	100 00
		Police Department	1,800 00
		School Department, Salaries	2,200 00
		Stationery and Printing	25 00
		Treasury Department	500 00
Fire Department	600 00	Contingent Fund	400 00
		Electrical Department, Wires	200 00
City Buildings (Care and Repairs)	1,500 00	Schoolhouses (Care and Repairs)	1,500 00
Wellington, Gore and Felton Schoolhouses	1,500 00	Schoolhouses (Care and Repairs)	1,500 00
Street Department, Cleaning	1,500 00	Street Dept., Collection of Ashes	1,500 00
Sewers, Construction	2,000 00	Sewers, Maintenance	2,000 00
Printing, Town Records	100 00	Contingent Fund	100 00
Russell Memorial	300 00	Contingent Fund	300 00
Revised Ordinances	1,500 00	Contingent Fund	1,500 00
Interest	4,500 00	Contingent Fund	4,500 00
Street Department, Bridges	1,000 00	Contingent Fund	1,000 00
	$23,050 00		$23,050 00

COMPARATIVE STATEMENT BY DECADES FROM 1855 TO 1900.

	1855.	1865.	1875.	1885.	1895.	1900.
Population	20,637	29,112	47,838	59,660	81,643	91,886
Valuation	$15,437,100 00	$26,085,900 00	$66,623,014 00	$55,346,555 00	$80,911,060 00	$94,465,659 30
City Tax	100,604 53	267,708 60	1,060,396 52	804,800 00	1,103,455 30	1,395,452 98
County Tax	10,137 78	18,280 99	37,580 73	29,381 54	73,887 84	85,997 56
State Tax	5,190 00	118,487 00	58,880 00	44,835 00	46,800 00	48,195 00
Tax rate per $1,000	7 10	15 00	17 00	15 50	15 70	16 90
Total Expenditures	173,533 58	536,911 82	2,605,267 74	2,354,298 69	3,686,702 54	3,371,183 99
City Debt	146,600 00	833,092 00	4,106,843 21	2,361,396 50	3,913,634 23	3,592,904 00
Expenditures by Depts:—						
Bridges	890 31	9,007 77	39,068 39	11,829 77	16,297 33	20,179 38
Cemeteries	6,553 67	16,742 29	19,438 66	80,399 22	16,999 40	21,603 34
Fire Dept.	9,623 70	21,958 74	89,949 99	59,341 15	104,898 59	90,362 64
Lighting Sts.	2,987 32	9,062 24	20,919 04	32,269 07	69,926 61	71,998 78
Pauper Dept.	8,520 41	21,481 52	79,719 54	56,338 24	100,841 33	106,154 82
Police Dept.	4,499 56	22,833 14	71,093 35	78,357 73	110,784 22	123,774 68
Public Libr'y	.....	1,111 77	6,040 04	6 643 51	21,034 83	20,267 46
Schools	32,169 16	81,842 47	258,985 15	227,511 77	362,353 79	500,540 53
Sewers	4,610 68	3,683 07	135,432 28	40,945 40	149,459 89	108,581 11
Streets	14,554 73	35,638 38	155,476 90	148,088 65	252,154 62	279,497 94
Water Works	.....	20,327 79	234,431 03	485,691 04	758,054 81	353,607 18

EXPENDITURES OF THE DIFFERENT DEPARTMENTS FROM 1891 TO 1900, INCLUSIVE.

NAMES OF DEPARTMENTS.	Expended in 1891.	Expended in 1892.	Expended in 1893.	Expended in 1894.	Expended in 1895.	Expended in 1896.	Expended in 1897.	Expended in 1898.	Expended in 1899.	Expended in 1900.
Ambulance Department	.....	.....	.....	$625 00	$2,269 15	$2,452 39	.....	.....	.....	.....
Assessors' Department	$9,585 82	$10,665 86	$10,922 58	10.919 65	12,797 40	12,943 24	$13,077 44	$13,552 25	$13,489 10	$13,498 95
Auditing Department	3,118 43	3,167 32	3,445 86	3,983 67	3,352 03	3,567 88	3,511 12	3,489 04	3 470 88	3,571 13
Cemetery Department	18,131 22	16,791 09	19,462 59	17,998 89	16,999 40	20,000 00	19,846 77	19,832 66	19,910 23	21,603 34
City Clerk Department	5,656 66	5,996 68	5,978 12	6,229 55	6,404 25	7,107 04	7,193 53	7,759 82	7,875 84	9,042 78
City Messenger Department	2,533 83	2,518 16	2,525 96	2,587 54	2,645 92	2,763 59	2,799 51	2,859 04	2,555 94	2,562 75
Civil Service Department	224 80	225 00	240 50	224 50	275 00	249 97	248 07	248 85	247 05	249 60
Clerk of Committees Department	3,428 36	3,451 52	3,526 06	3,597 37	3,708 47	3.925 34	3,946 56	3,972 39	3,968 90	3,970 47
Contingent Fund	8,075 97	7,212 36	10,847 07	15,348 28	14,514 68	16,139 18	7,966 46	11,064 33	13,099 91	25,944 42
Election Expenses	7,385 56	10,557 49	12,044 88	9,692 50	9,476 60	12,463 99	9,943 08	10,861 47	9,948 85	10.196 56
Engineering Department	9,448 59	9,902 11	9,644 00	15,279 50	22,743 52	14,211 55	12,969 29	11,147 34	11,224 85	11,187 79
Executive Department	2,583 60	4,387 95	4,641 40	4,825 08	5,362 15	5,414 08	5,299 35	5,184 26	5,182 88	5,263 48
Fire Department	66,773 83	61,016 48	61,627 27	72,488 69	82,171 99	85,467 88	78,687 13	80.152 89	84,900 23	90,362 64
Health Department	4,392 39	4,887 62	5,475 37	6,097 88	11,482 98	16,999 55	17,059 35	17,496 64	19,754 04	27,245 46
Inspection of Milk and Vinegar	1,041 24	999 90	1,298 76	1,350 00	1,388 14	1,586 24	1,583 90	1,499 56	1,500 00	1,499 37
Inspection of Provisions, etc	.....	.....	.....	756 06	747 89	793 60	796 19	798 12	793 60	798 05
Inspection of Wires	7,299 85	12,548 88	9,545 07	10,148 01	10,399 82	11,999 74	10,699 98	11 197 60	14,499 98	10,575 99
Interest	127,180 58	134,036 63	136,877 92	126,289 20	118,099 84	132,099 07	134,396 40	135,795 18	139,432 86	150.015 96
Lamp Department	47,989 92	63,862 68	66,615 93	68,988 81	69,926 61	67,325 31	69,264 96	69,182 20	71,980 42	71,998 78
Law Department	2,830 94	3,044 37	3,206 19	3,272 94	3,970 45	5,197 44	5,189 88	5,192 65	5,632 35	5,038 59
Overseers of the Poor Department	83,104 59	88,370 89	97,570 17	100,810 42	100,841 33	105,379 81	106,373 80	103,983 80	104,845 15	106,154 82
Park Department	.....	.....	339 13	258,276 09	222,475 05	256,490 43	211,783 90	217,188 89	175,065 82	165,856 05
Plumbers'Examiners Department	.....	.....	.....	119 95	153 81	101 05	116 40	111 50	98 75	115 00
Police Department	98,363 28	104,547 24	111,581 80	110,244 91	110,784 22	110,111 14	113,550 42	116,762 59	116 998 35	123,774 68
Public Library	13,426 22	13,638 57	14,585 44	29,875 62	21,064 83	18,493 00	19,823 36	20,078 38	21,224 67	20,267 46
Public Property	204,185 24	178,324 92	149,280 61	187,922 57	154,289 89	176,264 31	222,216 56	258,628 93	332,503 41	167,857 33
School Department	213,934 48	224,670 38	238,018 21	248,265 10	258,766 08	272,481 50	282,400 45	295,673 51	335,372 89	357,691 51
Sealer of Weights and Measures	1,560 44	1,684 10	1,654 93	1,598 95	1,491 29	1,570 52	1,619 73	1,598 46	1,644 02	1,694 97
Sewer Department	52,893 68	42,324 49	40,597 04	92,635 43	87,553 59	106,688 27	64,231 45	52,828 90	84.996 28	108,581 11
Sinking Fund	75,170 00	91,770 00	104,095 00	100,390 00	106,940 00	93,765 00	104,725 00	111,937 50	118,750 00	133,824 00
State Aid	22,693 05	25,262 30	25,469 80	24,669 55	23,159 91	23,209 03	23,491 36	28,751 62	27,218 27	25,413 88
Stationery and Printing	2,998 70	2,677 87	2,533 89	2,739 13	2,843 14	2,939 79	2.847 32	2,869 03	2,983 88	3,021 32
Street Dept. (Roads and Bridges)	299,284 55	310,948 66	243,032 63	285,348 54	259,953 37	323,912 86	412,986 18	249,167 53	326,637 84	373,083 10
Treasury Department	11,629 03	11,680 62	12,179 00	12,542 01	13,471 50	13,995 46	14,415 54	14,282 77	14,699 53	15,478 14
Water Works Department	297,901 16	497,772 78	430,846 12	420,688 47	758,054 81	1,045,529 76	794,197 98	634,583 00	367,048 88	353,607 18
Taxes:—										
Abatements	19,719 39	23,647 67	24,678 10	26,926 07	19,427 40	17,922 54	22,081 73	27,566 98	35,317 61	33,005 90
County	49,851 13	60,845 07	63,569 57	68,110 25	73,887 84	78,321 11	73,887 84	79,914 80	87,085 65	85,997 56
Metropolitan Sewer	.....	6,809 57	17,363 62	45,483 43	61,886 21	.....	137,297 30	56,818 94	74,763 08	73,018 92
National Bank	6,851 10	7,459 69	6,659 26	7,372 24	7,136 92	6,632 77	7,995 91	7,459 91	7,681 26	7,167 54
State	46,440 00	54,495 00	77,850 00	62,280 00	46,800 00	54,600 00	54,600 00	48,195 00	48,195 00	48,195 00
Total	$1,827,687 63	$2,102,201 62	$2,029,829 49	$2,467,001 85	$2,729,717 48	$3,131,115 43	$3,075,103 20	$2,739,688 33	$2,712,598 25	$2,668,431 58

APPROPRIATIONS AND EXPENDITURES

THE AMOUNT OF THE SEVERAL APPROPRIATIONS MADE BY THE CITY COUNCIL DURING THE YEAR — THE TRANSFERS FROM ONE APPROPRIATION TO ANOTHER — THE EXPENDITURES IN DETAIL UNDER EACH APPROPRIATION, AND THE UNEXPENDED BALANCES NOVEMBER 30, 1900.

APPROPRIATIONS AND EXPENDITURES

ASSESSORS' DEPARTMENT.

Appropriation			$13,500 00
	EXPENDED.		
For salaries of Assessors :—			
John M. Davis	$2,000 00		
J. G. Gooch	2,000 00		
A. J. Green	2,000 00		
Assistant Assessors :—			
Edward A. Barnard	368 00		
Warren Ivers	332 00		
Geo. H. Munroe	360 50		
Robert A. Parry	324 00		
D. B. Shaugnessy	228 00		
Clerks :—			
Carrie A. Estes	735 00		
Helen P. Hooker	735 00		
Jessie I. R. Waterman	735 00		
Temporary Clerks	2,546 37		
		$12,363 87	
Abstracts		67 00	
Atlas, Geo. W. Stadly & Co.		35 00	
Carriage hire, Geo. T. Whiting & Co.		8 00	
Car tickets, Boston Elevated Railway Company		60 00	
Directories :—			
E. F. Hunt & Co.	$3 00		
Sampson, Murdock & Co.	5 00		
		8 00	
Stationery, printing, etc. :—			
Cambridge Chronicle Company	$652 00		
Cotton & Gould	171 62		
Stationery Department	88 31		
		911 93	
Subscription, Banker and Tradesman		5 00	
Sundries		2 30	
Telephone rent and tolls		37 85	
Total			$13,498 95
Balance unexpended			$1 05

AUDITING DEPARTMENT.

Appropriation			$3,600 00
EXPENDED.			
For salaries of —			
City Auditor, Harry T. Upham	$2,100 00		
Clerk, Esther L. Cogan	785 00		
Temporary Clerks	260 00		
		$3,145 00	
Lighting apparatus		6 87	
Stationery, printing, etc. :—			
Cotton & Gould	$32 80		
J. A. Cummings Printing Company	44 78		
Thorp & Martin Company	135 20		
Times Publishing Company	53 50		
John Wilson & Son	103 50		
Stationery Department	10 64		
Sundry persons	11 75		
		392 17	
Sundries		7 67	
Telephone rent		19 42	
Total			$3,571 13
Balance unexpended			$28 87

BRIDGE DEPARTMENT.

Appropriation			$17,000 00
Transferred from Contingent Fund			725 00
			$17,725 00
RECEIVED.			
For rents, wharfage, etc.		$492 35	
EXPENDED.			
For salaries of —			
Bridge Commissioner and Harbor Master, Wm, J. Marvin	$800 00		
Clerk, Chas. S Parsons	250 00		
Draw-tenders and Assistants	7,707 94		
		8,757 94	
Advertising		9 46	
Car tickets, Boston Elevated Railway		50 00	
Cash paid for labor and supplies :—			
M. F. Corkery	$96 82		
Jas. A. Gorman	1 85		
A. W. Smith	21 60		
N. E. Story	210 76		
		331 03	
Cleaning and repairing roadway :—			
Austin Ford & Son	$118 54		
Thos. Ingraham	99 50		
		218 04	
Current for draw, Cambridge Electric Light Company		150 00	
Amounts carried forward		$9,516 47	$17,725 00

BRIDGE DEPARTMENT — Continued.

Amounts brought forward		$9,516 47	$17,725 00
For fuel :—			
Marston Coal Company	$209 03		
Thomas and Pike	56 34		
		265 37	
Furniture and bedding :—			
J. H. Corcoran & Co.	$18 98		
Phillips Bros. & Co.	5 25		
		24 23	
Hardware, tools and supplies :—			
Dodge, Haley & Co.	$40 56		
Wm. Elliott & Co.	14 99		
L. A. Stingel	72 11		
P. H. Stratton	10 35		
F. A. White	51 80		
Sundry persons	7 90		
		197 71	
Heating apparatus repairs :—			
L. M. Howes & Co.	$18 56		
G. L. Stewart	3 60		
		22 16	
Ice, Boston Ice Company		6 00	
Labor :—			
P. A. Berkley, Jr.	$53 92		
Jas. Conlon	14 00		
Michael Hanify	53 92		
J. W. McAleer	68 00		
Cornelius McHugh	13 00		
		202 84	
Lighting :—			
Boston Electric Light Company	$446 96		
Brookline Gas Light Company	176 82		
Cambridge Electric Light Company	1,280 04		
Welsbach Street Lighting Company	480 00		
		2,383 82	
Lumber :—			
John S. Clary	$362 62		
Geo. W. Gale Lumber Company	85 14		
Geo. McQuesten & Co.	308 15		
E. D. Sawyer & Co.	161 98		
John M. Woods & Co.	7 78		
Wm. H. Wood & Co.	438 58		
		1,364 25	
Oils, paints, etc. :—			
Merrill, Dexter & Co.	$249 34		
Standard Oil Company	18 88		
		268 22	
Painting, Samuel Robinson		417 89	
Plumbing :—			
McVarish and Hennigan	$7 95		
Edw. Moore & Co.	31 25		
		39 20	
Amounts carried forward		$14,708 16	$17,725 00

BRIDGE DEPARTMENT — Concluded.

Amounts brought forward		$14,708 16	$17,725 00
For repairing Bridges :—			
Thos J. Emery	$12 32		
Wm. L Miller	11 52		
Miller & Shaw	269 19		
Ross & Fowler	1,593 50		
John T. Scully	960 54		
		2,847 07	
Repairing roofs, John J. Blevins		12 32	
Sprinkling Bridges, Street Department		31 00	
Stationery and printing :—			
City of Boston	$19 73		
J. L. Fairbanks & Co.	14 10		
		33 83	
Sundries		8 27	
Telephone rent and tolls		13 94	
Typewriting, A. R. Andrews		9 00	
Work on draw, Ross & Fowler		53 51	
Total			17,717 10
Balance unexpended			$7 90

CAMBRIDGE BRIDGE.

Appropriation			$104,782 86
RECEIVED.			
For old draw		$50 00	
EXPENDED.			
For salaries :—			
Commissioner, E. D. Leavitt	$1,250 00		
Chief Engineer, Wm. Jackson	1,500 00		
Assistant Secretary, Walter G. Davis	600 00		
Assistant Engineers :—			
John E. Cheney	$1,000 00		
Geo. Currier	55 25		
F. H. Fay	165 00		
S. A. Jubb	605 25		
F. P. Spalding	27 00		
S. H. Thorndike	38 00		
M. G. Woodward	482 00		
Draughtsmen :—			
Geo. H. Hayward	$222 00		
W. F. Mann	52 50		
H. F. Sawtelle	305 00		
E. C. Sherman	202 00		
Axeman, F. J Steele	231 00		
Inspector, J. P. Carroll	186 00		
Leveler, Geo. E. Harkness	356 25		
Messenger, John Mountain	259 87		
Rodman, John F. Gorman	336 89		
Amounts carried forward		$7,874 01	$104,782 8 6

CAMBRIDGE BRIDGE — Continued.

Amounts brought forward		$7,874 01	$104,782 86
For clerical services :—			
Jas. A. McKibben	$125 00		
Chas. S. Parsons	125 00		
		250 00	
Advertising :—			
Boston Daily Advertiser	$12 07		
Boston Herald Company	7 31		
Boston Transcript Company	8 31		
Boston Traveler Company	6 00		
D. A. Buckley	3 50		
Cambridge Chronicle Company	2 25		
Engineering News Pub. Company	13 05		
Engineering Record	9 60		
Globe Newspaper Company	7 31		
F. S. Hill	5 00		
Journal Newspaper Company	10 27		
Post Publishing Company	6 75		
Press Newspaper Company	2 03		
Railroad Gazette	8 44		
		101 89	
Appraising damage, R. and C. G. Wentworth		125 00	
Building office, Albion Ryan		84 18	
Building bridge, Wm. J. Lawler		515 70	
Carpenter work :—			
John T. Scully	$287 26		
Norman J. Steele	28 30		
		315 56	
Cash expended for traveling expenses and sundries :—			
Edgar R. Champlin	$341 33		
Walter G. Davis	40 88		
M. G. Woodward	26 74		
		408 95	
Electrical work :—			
General Electric Company		119 41	
Gas fitting, Wm. H. Griffith & Co.		15 12	
Hardware :—			
Dodge, Haley & Co.	$41 46		
J. D. Jewett & Co.	16 86		
		58 32	
Heating apparatus :—			
Wm. H. Griffith & Co.	$10 72		
G. L. Stewart	28 04		
		38 76	
Iron work, Miller & Shaw		264 61	
Installing lights :—			
Cambridge Electric Light Company	91 55		
Boston Electric Light Company	145 14		
		236 69	
Amounts carried forward		$10,408 20	$104,782 86

CAMBRIDGE BRIDGE — Concluded.

Amounts brought forward		$10,408 20	$104,782 86
For land and damage :—			
Horace O. Bright	$6,183 75		
Geo. G. Crockett *et al.*	18,009 99		
		24,193 74	
Lumber :—			
Jos. Goodnow & Co.	$14 05		
E. B. James Lumber Company	96 52		
G. H. Jennings	287 11		
Wm. H. Wood & Co.	173 96		
		571 64	
Model of bridge, John Evans & Co.		33 00	
Paints, etc., Wadsworth, Howland & Co.		37 99	
Photographs :—			
Fred. M. Ellis	$89 25		
Edmund M. Wheelwright	168 75		
Whitney & Son	107 45		
		365 45	
Pen and ink drawing of bridge, H. B. Pennell		7 50	
Piers, Holbrook, Cabot & Daly		9,462 63	
Plans, etc., Edmund M. Wheelwright :—			
Professional services	$1,200 00		
Draughting	1,716 30		
		2,916 30	
Plumbing :—			
Jos. Goodnow & Co.	$13 90		
Wm. H. Griffith Company	55 00		
		68 90	
Removing old bridge :—			
Holbrook, Cabot & Daly		8,438 37	
Sheathing bridge :—			
Jos. Ross	$833 48		
Inspection	175 00		
		1,008 48	
Stationery and printing :—			
Cambridge Chronicle Company	$54 75		
City of Boston	38 78		
J. L. Fairbanks & Co.	10 94		
		104 47	
Sundries		25 71	
Telephone rent		10 46	
Total			$57,652 84
Balance unexpended			$47,130 02

CEMETERY DEPARTMENT.

Appropriation			$18,000 00
	RECEIVED.		
For brick and slate graves	$230 00		
Burials	4,897 50		
Care of lots	2,379 10		
Chapel	28 00		
Foundations	993 46		
Grading and sodding	97 50		
Interest on Cemetery Fund	1,733 26		
Myrtle graves	13 00		
Sale of lots	5,581 30		
Stone posts	2 00		
Sundries	192 95		
Wood	7 00		
		$16,155 07	
	EXPENDED.		
For salaries of—			
Superintendent, Chas. S. Childs	$1,600 00		
Asst. Supt., Henry C. Hobbs	1,003 75		
Bookkeeper, J. Watson Taylor	1,095 00		
Clerk, Edward J. Brandon	100 00		
Laborers, as per pay-rolls	11,123 03		
		$14,921 78	
Brooms and evergreen :—			
Stephen Adams		11 00	
Canvas, James Martin & Son		21 00	
Carriage hire :—			
F. P. Merrill	$7 00		
Ralph Smith & Co.	5 00		
George F. Whiting & Co.	24 00		
		36 00	
Carriage and wagon repairs :—			
Chapman Carriage Co.		15 00	
Car tickets :—			
Boston Elevated Railway Co.		20 00	
Decorating monument, M. C. Beedle		24 00	
Directories, W. A. Greenough & Co.		6 00	
Dinners, Colonial Club		36 00	
Expressage, Hatch & Co.		6 63	
Fences, S. A. Rice		187 61	
Fuel, Metropolitan Coal Co.		53 56	
Granite tablets and stone work :—			
Alex. Wight	$30 18		
A. McDonald & Son	32 85		
		63 03	
Gravel, Jeremiah Sullivan		46 61	
Grave-boxes, Wm. L. Lockhart		15 00	
Amounts carried forward		$15,463 22	$18,000 00

CEMETERY DEPARTMENT — Continued.

Amounts brought forward		$15,463 22	$18,000 00
For hardware, tools and repairs, and supplies :—			
Joseph Breck & Sons	$43 22		
Burditt & Bynner	25 75		
Chapman Carriage Co.	22 16		
T. H. Kneeland	23 03		
F. A. White	72 78		
Sundry persons	10 81		
		197 75	
Harness repairs, Thomas McMahon		10 00	
Hay and grain, E. R. Luke & Co.		96 23	
Heating apparatus, repairs :—			
D. J. Wild & Co.		42 25	
Horse shoeing, William Balmer		16 00	
Labor and materials :—			
Water Works Department		7 90	
Lumber and cement :—			
George W. Gale Lumber Co.		79 99	
Matting and mats, Worcester Bros.		9 10	
Mason work, J. Delaney		457 52	
Manure, Jeremiah Sullivan		236 24	
Plants :—			
P. O'Brien & Son	17 50		
Shady Hill Nursery Co.	5 00		
H. L. Cameron	81 00		
		103 50	
Plowing snow, Joseph Ray		14 25	
Postage, F. M. Small		40 00	
Prints, W. H. Lertora		5 50	
Repairing gate, P. J. Dinn & Co.		7 50	
Roof repairs, John J. Blevins		31 79	
Seeds and dressing :—			
Joseph Breck & Sons		31 10	
Sign, F. B. Furbish		11 00	
Sign-posts, Broadway Iron Foundry		13 50	
Slate grave vaults, grave slabs :—			
Wm. L. Lockhart & Co.	17 50		
Alden Speare's Sons Co.	67 00		
Thomas F. Royle	73 50		
		158 00	
Sods, James Gray		187 50	
Amounts carried forward		$17,219 84	$18,000 00

CEMETERY DEPARTMENT — Concluded.

Amounts brought forward		$17,219 84	$18,000 00
For stationery, printing, etc. :—			
Caustic & Claflin	$64 00		
J. A. Cummings Printing Co.	34 20		
Sundry persons	5 71		
		103 91	
Stones and stone dust, James Gray		363 17	
Sundries		3 15	
Teaming, Jeremiah Sullivan		66 50	
Telephone rent and tolls		63 66	
Trees, J. W. Manning		35 50	
Watering driveway :—			
Street Department	$51 46		
Joseph Ray	17 00		
		68 46	
Total			$17,924 19
Balance unexpended			$75 81

CEMETERY DEPARTMENT.

Filling Low Lands.

Appropriation,			$7,000 00
EXPENDED.			
For filling :—			
Jeremiah Sullivan		$3,600 00	
Gravel :—			
Jeremiah Sullivan		40 29	
Teaming :—			
Jeremiah Sullivan		38 86	
Total			3,679 15
Balance unexpended			$3,320 85

CITY CLERK DEPARTMENT.

Appropriation			$7,600 00
Transferred from Contingent Fund			250 00
			$7,850 00
RECEIVED.			
For fees from sundry persons		$3,003 70	
EXPENDED.			
For salaries of :—			
City Clerk, Edward J Brandon	$3,000 00		
Assistant City Clerk, Albert M. Pear	1,400 00		
Amounts carried forward	$4,400 00		$7,850 00

CITY CLERK DEPARTMENT — Continued.

Amounts brought forward . . .	$4,400 00		$7,850 00
For clerks :—			
Amanda Richardson Murray . .	588 46		
Annie E. Conley	460 00		
Temporary Clerks :—			
Margaret A. Dayton . . .	113 25		
Sarah S. Jacobs	145 20		
Anne Jacobs	375 00		
		$6,081 91	
Advertising, sundry persons . .		13 75	
Atlas, George W. Stadly & Co. . .		35 00	
Badges, Burditt & Bynner . . .		67 50	
Binding, J. H. H. McNamee . .		13 23	
Cabinet, Office, Bank and Library Co.		8 35	
Canvassing :—			
James H. Cox	$26 80		
Arthur L. Farrell	54 00		
Emile J. Grenier	45 00		
Warren Ivers	45 00		
James E. Lennon	45 00		
John Loughrey	24 00		
William F. McCormick . . .	48 00		
George H. Munroe	63 00		
Patrick J. White	57 00		
		407 80	
Directory, Sampson, Murdock & Co.		5 00	
Expressage, sundry persons . .		7 29	
Metal case, Art Metal Construction Co.		18 00	
Posting and serving notices :—			
James E. Lennon	57 80		
Walter F. Hayward . . .	27 90		
		85 70	
Recording deeds, E. O. Childs . .		42 65	
Reporting births		333 00	
Services obtaining facts for records, James H. Cox		6 75	
Stamps :—			
Boston Stencil and Stamp Works .	$13 50		
T. S. Buck	5 60		
Sundry persons	6 50		
		25 60	
Stationery, printing, etc. :—			
M. T. Callahan	$35 00		
Cambridge Chronicle Company .	54 75		
Cotton and Gould	106 85		
Co-operative Press	5 00		
J A. Cummings Printing Company	10 10		
J. Frank Facey	162 45		
John H. Ford	16 00		
E. W. S. Jones	7 75		
Henry M. Meek	16 67		
Stationery Department . . .	120 06		
Times Publishing Company . .	9 00		
Edward W. Wheeler . . .	26 85		
		570 48	
Amounts carried forward		$7,722 01	$7,850 00

CITY CLERK DEPARTMENT — Concluded.

Amounts brought forward		$7,722 01	$7,850 00
For sundries		22 58	
Telephone rent and tolls . . .		59 13	
Typewriter repairs :—			
Smith Premier Typewriter Company		10 60	
Total			7,814 32
Balance unexpended . .			$35 68

CITY CLERK DEPARTMENT.

Classified Index.

Appropriation			$800 00
EXPENDED.			
For cabinet and cards :—			
The Fred Macey Co. . . .		$236 21	
Clerical assistance :—			
Adah N. Bowles	$40 25		
Margaret A. Dayton . . .	118 00		
Mary A. Dow	29 75		
		188 00	
Printing, J. Frank Facey . . .		50	
Total			424 71
Balance unexpended . .			$375 29

CITY CLERK DEPARTMENT.

Printing Town Records.

Appropriation			$802 50
EXPENDED.			
For printing, John Wilson & Son . .		$800 00	
Total			800 00
Balance unexpended . .			$2 50

CITY CLERK DEPARTMENT.

Russell Memorial.

Appropriation			$56 50
EXPENDED.			
For insurance, T. H. Raymond . .		$3 75	
Total			3 75
Balance unexpended . .			$52 75

CITY MESSENGER DEPARTMENT.

Appropriation			$2,600 00
EXPENDED.			
For salaries of: —			
City Messenger, F. L. Pratt	$1,800 00		
Assistant, Frank T. Evans	400 67		
		2,200 67	
Car tickets: —			
Boston Elevated Railway Company		30 00	
Directories: —			
E. F. Hunt & Co.	$3 00		
Sampson, Murdock & Co.	5 00		
		8 00	
Expressage, Hatch & Co.		19 07	
Lunch, M. R. Jones		14 50	
Park wagons—use: —			
Grafton E. Kirwin		25 00	
Rent of Post Office Box		10 00	
Stationery and printing: —			
Cambridge Chronicle Company	$12 00		
Stationery Department	107 60		
		119 60	
Subscriptions: —			
George E. French		6 00	
Sundries		3 90	
Telephone, rent and tolls		126 01	
Total			2,562 75
Balance unexpended			$37 25

CIVIL SERVICE DEPARTMENT.

Appropriation			$250 00
EXPENDED.			
For salary of clerk, Harry L. Lincoln		$200 00	
Oak cabinet, Derby Desk Company		22 50	
Stationery: —			
Thorp and Martin Company	$22 50		
Samuel Ward Company	4 60		
		27 10	
Total			249 60
Balance unexpended			$ 40

CLERK OF COMMITTEES DEPARTMENT.

Appropriation			$4,000 00
	EXPENDED.		
For salaries of :—			
Clerk of Committees, John McDuffie	$2,400 00		
Assistant, Eben W. Pike	1,200 00		
		$3,600 00	
Atlas, George W. Stadly & Co.		35 00	
Advertising, Cambridge Chronicle Co.		5 50	
Boxes, Charles A. Brackett		7 50	
Car tickets :—			
Boston Elevated Railway Company		10 00	
Directories :—			
Sampson, Murdock & Co.	$5 00		
Sundry persons	6 00		
		11 00	
Massachusetts Public Statutes :—			
Little, Brown & Co.		7 10	
Stationery and printing :—			
Cambridge Chronicle Company	$70 26		
Cotton & Gould	46 53		
Stationery Department	113 01		
		229 80	
Stamps :—			
Boston Stencil and Stamp Works	$7 25		
Pneumatic Hand Stamp Company	2 37		
		9 62	
Subscriptions and newspaper files :—			
Cambridge Chronicle Company	$7 50		
F. S. Hill	5 00		
Sundry persons	2 50		
		15 00	
Sundries		7 75	
Telephone rent and tolls		5 00	
Typewriter repairs :—			
United Typewriter & Supplies Co.		27 20	
Total			3,970 47
Balance unexpended			$29 53

CONTINGENT FUND.

Appropriation	$20,000 00
Transferred from sundry departments	14,669 01
	$34,669 01
Transferred to sundry departments	8,550 00
Amount carried forward	$26,119 01

CONTINGENT FUND — Continued.

Amount brought forward			$26,119 01
RECEIVED.			
For damage to schooner by defect in draw, one half. City of Boston		$22 50	
Hawkers' and peddlers' license		25 00	
Liquor licenses		51 00	
Minors' licenses		55 00	
Old taxes		1 25	
Refund of execution paid to Alma L. Kane		2,633 76	
Sale of :—			
"Cambridge, 1896"		15 00	
"Fifty Years a City"		10 50	
"Paige's History"		90 00	
"Proprietors' Records"		20 00	
		$2,924 01	
EXPENDED.			
For Annual Digest :—			
West Publishing Company		58 75	
Car tickets for military companies		232 50	
City Council expenses :—			
Salaries :—			
Clerk, Edw. A. Counihan	$483 30		
Page, Frank T. Evans	100 00		
Barge hire :—			
Elliott & Duvey	7 00		
John Nixon	7 00		
Carriage hire	57 00		
Car tickets :—			
Boston Elevated Railway Company	200 00		
Engrossing resolutions :—			
Frank L. Wells	38 00		
Expenses of Committees :—			
Committee on Accounts :—			
Refreshments	12 00		
Committee on Claims :—			
Carriage hire	25 75		
Refreshments	16 00		
Committee on Engineering Department :—			
Refreshments	9 00		
Amounts carried forward	$955 05	$291 25	$26,119 01

CONTINGENT FUND — Continued.

Amounts brought forward . . .	$955 05	$291 25	$26,119 01
For Expenses of Committees :—			
Committee on Finance :—			
Carriage hire	3 00		
Refreshments	97 00		
Committee on Fire Department :—			
Carriage hire	20 00		
Refreshments	23 00		
Committee on Health Department :—			
Carriage hire	28 00		
Refreshments	8 00		
Committee on Investigation of School-house Lot :—			
Carriage hire	1 00		
Refreshments	24 50		
Committee on Lamps :—			
Carriage hire	16 00		
Refreshments	7 00		
Committee on Licenses :—			
Carriage hire	20 00		
Refreshments	5 00		
Committee on Police Department :—			
Carriage hire	6 00		
Refreshments	6 00		
Committee on Public Property :—			
Carriage hire	50 00		
Refreshments	61 30		
Committee on Road and Bridges :—			
Carriage hire	36 00		
Entertaining Mass. Highway Asso.	20 00		
Refreshments	58 00		
Floral emblems :—			
Fred. C. Becker	25 00		
P. O'Brien & Son	28 00		
Refreshments	52 65		
Stationery and printing . . .	8 05		
		1,558 55	
Damages awarded and suits settled :—			
Samuel F. Batchelder . . .	$675 40		
Jas. Bigley	75 00		
Elijah N. Crowell	45 00		
Arthur W. Cutler	12 00		
Elizabeth Farley	50 00		
Clarissa S. Gray	50 00		
Amounts carried forward . .	$907 40	$1,849 80	$26,119 01

CONTINGENT FUND — Continued.

Amounts brought forward	$907 40	$1,849 80	$26,119 01
For damages awarded and suits settled :—			
Osgood & Hart	10 00		
John A. Hamilton	30 48		
M. Elizabeth Hewins	13 50		
Fred O. Holmberg	25 00		
Ursula W. Howe	40 00		
Dennis J. Hurley	200 00		
Anna L. Kane	2,612 01		
Chas. Lloyd	2,300 00		
Sarah L. Long	25 00		
Peter M McCarthy	25 00		
Elizabeth B. McGregor	500 00		
Alexander Millan	112 50		
Sarah A Roggio	200 00		
Christina B. Webster	600 00		
Wm. H. Welch	50 00		
		7,650 89	
Expenses of Hearings on House Bill in relation to conduits :—			
Lantern services :—			
A. T. Thompson & Co.	10 00		
Lantern slides, Whiting & Son	4 50		
Stationery and printing	90 89		
Stenography and typewriting :—			
Annie E. Conley	25 00		
Jeanette Soule	74 97		
Traveling expenses, G. A. A. Pevey	124 49		
		329 85	
Expenses of Inauguration Day :—			
Flowers and plants, Wm. A. Bock		25 00	
Invalid tax title, Harlow H. Rogers		23 47	
" Liquor Laws," Henry H. Faxon		12 00	
Liquor licenses		12 50	
Memorial Day expenses		1,100 00	
Photographs of Prison Point :—			
F. M. Ellis		168 00	
Postage, F. M. Small		11 25	
Printing Ordinances :—			
J. A. Cummings Printing Company		451 70	
Rebates on Park Betterments :—			
W. F. Holmes	$293 32		
Chas. C. Marston	16 83		
Maria M. Nash	101 16		
		411 31	
Amounts carried forward		$12,045 77	$26,119 01

CONTINGENT FUND — Continued.

Amounts brought forward . . .		$12,045 77	$26,119 01
For refund of excess of taxes :—			
Horace O. Bright	$341 76		
Benj. F. Brown	215 11		
Cambridgeport Savings Bank. .	229 26		
Geo G. Crocker, Tr. . . .	618 00		
Mary G. Fisk	482 81		
Harvard College	6,777 71		
Edw. Kendall et als	602 67		
Geo B. Roberts	486 70		
Heirs of Benj Tilton . . .	135 19		
Wm. H. Wood	101 38		
		9,990 59	
Refund of sewer tax :—			
Est. of Reuben E. Demmon . .	$66 27		
Edw. W. Hooper	457 93		
Howard National Bank . . .	154 42		
		678 62	
Ringing bells on holidays . . .		78 00	
Sinking Funds :—			
Salaries of Treasurer of Sinking Funds, Wm. W. Dallinger . .	$300 00		
Secretary of Sinking Fund, John McDuffie	25 00		
Rent of box, Boston Safe Deposit and Trust Company . . .	40 00		
		365 00	
Summoning witnesses for Investigating Committee, Henry C. Jones .		48 15	
Sundries		26 20	
Work on floats, David F. Burns . .		6 15	
Celebration, July 3d :—			
Badges and buttons, Whitehead & Hoag Co.	$139 45		
Band stand, W. H. Norris . .	12 50		
Candy, Cobb, Bates & Yerxa . .	15 00		
Carriage hire, Geo. F. Whiting & Co.	5 00		
Cash expended, Stoughton Bell .	4 15		
W. H. Lewis	6 00		
Clerical services, J. H Webber .	5 00		
Decorating, U. S. Flag and Decorating Co	105 00		
Expenses, Wm. Vaughan Moody .	12 40		
Fireworks, Masten & Wells . .	275 00		
Flags, Jordan, Marsh & Co. . .	57 50		
Invitations, Samuel Ward Company .	61 25		
Japanese lanterns, Brock Bros. .	100 00		
Leading singing, A. P. Briggs . .	5 00		
Lights, N. E. Calcium Light Company	20 00		
Orchestra, Daggett's Orchestra .	50 00		
Platform, M. C. Beedle . . .	5 50		
Postage	12 00		
Amounts carried forward . .	$890 75	$23,238 48	$26,119 01

CONTINGENT FUND — Concluded.

Amounts brought forward . . .	$890 75	$23,238 48	$26,119 01
For celebration, July 3d :—			
Refreshments, M. R. Jones . .	54 00		
Ringing bells	26 00		
Services of band, Rindge Manual Training School Band . . .	120 00		
Sundries	30 55		
Use of tent, Jas. Martin & Son . .	13 45		
		1,134 75	
Celebration, July 4th :—			
Band stands :—			
F. B. Furbish	$25 00		
Wm. H. Norris	12 50		
Carriage hire, Chas. W. Dailey . .	5 00		
Fireworks, Masten & Wells . .	750 00		
Labor	36 00		
Printing, J. Frank Facey . . .	56 09		
Prizes :—			
John B. McCloskey	380 00		
Thomas Ryan	50 00		
Refreshments, M. R. Jones . . .	15 00		
Rent of lamps :—			
Kitson Hydro-Carbon Heating and Incandescent Light Company .	30 00		
Services of bands :—			
Cambridge City Band . . .	50 00		
Manual Training School Band . .	60 00		
Monumental National Band . .	50 00		
Services of official handicapper, John Graham	31 10		
Sundries	2 50		
Use of seats, etc., Lee L. Powers .	18 00		
		1,571 19	
Total			25,944 42
Balance unexpended . .			$174 59

ELECTION EXPENSES, CITY CLERK.

Appropriation		$5,350 00
EXPENDED.		
For precinct officers	$3,072 00	
Police officers	280 50	
Bell ringers	24 00	
Amounts carried forward . .	$3,376 50	$5,350 00

ELECTION EXPENSES, CITY CLERK — Continued

Amounts brought forward . . .		$3,376 50	$5,350 00
For clerical assistance:—			
Annie E. Conley	$40 00		
Margaret A. Dayton	18 00		
Anne Jacobs	25 00		
		83 00	
Clerical assistance on election returns .		16 00	
Advertising:—			
D. A. Buckley	$91 00		
Cambridge Chronicle Company . .	30 00		
Cambridge Press Company . .	49 00		
F. S. Hill	67 00		
Review Publishing Company . .	10 50		
Times Publishing Company . .	67 00		
		314 50	
Barge hire:—			
Alexander Nixon	$36 00		
John Nixon	40 00		
		76 00	
Binding and mounting lists, J. H. H. McNamee		61 85	
Boxes, Charles Place		10 00	
Canvas, W. H. Norris		63 00	
Card signs, T. Sweeney . . .		8 00	
Carriage hire:—			
Aaron Hale	$6 00		
George F. Whiting & Co. . . .	3 00		
		9 00	
Car tickets:—			
Boston Elevated Railway Company .		25 00	
Expressage and teaming:—			
F. R. Nickerson	$6 00		
Sundry persons	6 90		
		12 90	
Caucus laws, Richard L. Gay . .		15 00	
Hardware and supplies:—			
Burditt & Bynner	$15 59		
Phipps Brothers	6 00		
Sundry persons	1 40		
		22 99	
Labor, T. J. Denton		118 75	
Lunches:—			
George H. Murray	$31 04		
Oriental Tea Company . . .	9 04		
W. S. Sprague	25 32		
		65 40	
Painting signs, sundry persons . .		6 50	
Amounts carried forward . .		$4,284 39	$5,350 00

ELECTION EXPENSES, CITY CLERK — Concluded.

Amouuts brought forward . . .		$4,284 39	$5,350 00
For posting and serving notices :—			
George H. Munroe	$18 00		
Sundry persons	7 25		
		25 25	
Repairing ballot boxes, Edgar Hall .		93 25	
Schedule, George Davis . . .		6 75	
Stationery, printing, etc. :—			
Boston Stencil and Stamp Works .	$6 75		
Cambridge Chronicle Company .	85 03		
Caustic & Claflin	287 75		
Cotton & Gould	144 80		
J. Frank Facey	205 50		
J. A. Cummings Printing Company .	70 00		
Stationery department . . .	68 94		
Sundry persons	8 55		
Edward W. Wheeler	32 50		
		909 82	
Sundries		14 09	
Total			5,333 55
Balance unexpended . .			$16 45

ELECTION EXPENSES, REGISTRARS OF VOTERS.

Appropriation			$3,600 00
EXPENDED.			
For salaries of Registrars of Voters and clerk :—			
James Cox	$500 00		
John P. McCormick	500 00		
Fred W. Macdonald	500 00		
Isaac S. Pear	600 00		
		$2,100 00	
Clerical assistance, Anne Jacobs . .		284 00	
Clerical assistance at recount :—			
Warren Ivers	$3 60		
J. Henry Webber	3 60		
		7 20	
Advertising :—			
D. A. Buckley	$38 24		
Cambridge Chronicle Company .	697 71		
F. S. Hill	26 50		
Times Publishing Company . .	24 00		
		786 45	
Binding, J H. H. McNamee . . .		46 15	
Books, E. W. S. Jones		24 00	
Carpentry, W. H. Norris . . .		35 14	
Directory, E. F. Hunt & Co. . .		3 00	
Examination of law in regard to nomination papers, Ralph Woodworth .		7 00	
Posting notices, etc., Geo. H. Munroe .		36 60	
Amounts carried forward . .		$3,329 54	$3,600 00

ELECTION EXPENSES, REGISTRARS OF VOTERS — Concluded.

Amounts brought forward		$3,329 54	$3,600 00
For stationery and printing :—			
Stationery department	$13 89		
John Wilson & Son	95 00		
		108 89	
Sundries		7 87	
Use of carriage, F. R. Nickerson		18 00	
Total			3,464 30
Balance unexpended			$135 70

ELECTION EXPENSES, SUPERINTENDENT OF PUBLIC BUILDINGS.

Appropriation			$1,400 00
	EXPENDED.		
Canvas covers, H. Hamblin & Son		$15 00	
Canvas covers, laying :—			
James Grant & Co.		12 25	
Carpentry, W. H. Norris		475 40	
Heating apparatus, Greene & Co.		37 58	
Labor, Michael A. Keenan		1 50	
Lighting apparatus :—			
George F. Dickson		32 15	
Moving booths :—			
H. S. Angus & Son	$30 00		
John J. McCarthy	1 00		
		31 00	
Painting and varnishing :—			
J. L. P. Ackers		112 90	
Preparing rooms for voting :—			
J. S. Becker & Co.	12 50		
W. R. Blackman	12 33		
John I. Carroll	6 00		
W. F. Carroll	6 00		
A. E. Carter	6 00		
E. A. Counihan, Jr.	6 13		
James T. Cox	14 05		
William W. Dale	6 00		
A C. Day	12 00		
William H Eveleth	12 00		
W. L. Gray	12 00		
William Hillar	6 30		
William Holden	12 13		
John S. Kenney	6 00		
Amounts carried forward	$129 44	$717 78	$1,400 00

ELECTION EXPENSES, SUPERINTENDENT OF PUBLIC BUILDINGS — Concluded.

Amounts brought forward . . .	$129 44	$717 78	$1,400 00
For preparing rooms for voting :—			
John J. McCarty	3 50		
Malachi Mullen	12 00		
A. W. Nellson	12 24		
John Roach	12 00		
J. S. Southwick	12 00		
Charles H. Sullivan	12 00		
Alexander Sutherland . . .	8 00		
J. A. White	24 25		
M. L. Wilder	10 00		
		235 43	
For rent :—			
Charles Beck Post, No. 56, G. A. R. .	$50 00		
J. S. Becker & Co.	30 00		
Citizens' Trade Association . .	55 00		
Mt. Sinai Building Association . .	40 00		
John F. O'Brien	50 00		
Odd Fellows Hall Association . .	40 00		
The Prospect Union	40 00		
T. H. Raymond	10 00		
Red Jacket Veteran Firemen's Asso. .	17 50		
St. John's Literary Institute . .	110 00		
		442 50	
Services at City Hall election night :—			
William E. Brown		3 00	
Total			1,398 71
Balance unexpended . . .			$1 29

ELECTRICAL DEPARTMENT.

LAMPS.

Appropriation			$72,000 00
RECEIVED.			
For old lanterns		$3 00	
EXPENDED.			
For salary of Superintendent, Charles F. Hopewell		1,000 00	
Carriage repairs, Chapman Carriage Co.		25 00	
Directory, E. F. Hunt & Co. . .		3 00	
Furniture :—			
The Cobb-Eastman Company . .	$7 00		
Frost & Adams Company . . .	12 90		
		19 90	
Horse board, Ralph Smith & Co. . .		300 00	
Horse shoeing, Street Department .		8 80	
Lamps, Globe-Wernicke Company .		68 00	
Amounts carried forward . .		$1,424 70	$72,000 00

ELECTRICAL DEPARTMENT, LAMPS — Concluded.

Amounts brought forward		$1,424 70	$72,000 00
For lighting streets :—			
Cambridge Electric Light Company :—			
Arc	$50,678 64		
Incandescent	11,275 74		
Town of Belmont	60 00		
Welsbach Street Lighting Co.	8,447 92		
		70,462 30	
Moving lamps and posts :—			
Cambridge Electric Light Company	$29 60		
Cambridge Gas Light Company	40 70		
		70 30	
Stationery and printing :—			
J. A. Cummings Printing Company	$14 77		
Stationery Department	4 84		
		19 61	
Sundries		3 00	
Telephone rent and tolls		18 87	
Total			71,998 78
Balance unexpended			$1 22

ELECTRICAL DEPARTMENT.

WIRES.

Appropriation			$10,600 00
RECEIVED.			
For labor and materials		$315 96	
EXPENDED.			
For salaries of :—			
Inspector of Wires, Chas. F. Hopewell	$1,000 00		
Assistants	6,142 52		
Clerk, Lillian W. Hyde	313 00		
		7,455 52	
Apparatus and repairs and electrical supplies :—			
American Electric Works	$137 78		
American Steel and Wire Company	90 80		
Barbour Stockwell Company	23 64		
J. A. & W. Bird & Co.	12 30		
Crocker-Wheeler Company	52 60		
Crouse-Hinds Electric Company	18 75		
Thomas J. Daly	8 05		
W. E. Decrow	16 33		
Edes Manufacturing Company	46 50		
Electric Gas Light Company	133 49		
Electric Storage Battery Company	100 85		
General Electric Company	5 00		
A. H. Hews	145 17		
Machado & Roller	8 00		
Charles E. Perry & Co.	66 50		
Pettingell, Andrews Company	112 72		
Simplex Electric Company	154 47		
George M. Stevens	6 50		
Sundry persons	17 77		
Western Electric Company	80 00		
		1,237 22	
Amounts carried forward		$8,692 74	$10,600 00

ELECTRICAL DEPARTMENT, WIRES — Continued.

Amounts brought forward		$8,692 74	$10,600 00
For carpentry and mill work :—			
Ira G. Hersey	$89 45		
W. H. Norris	7 50		
M. F. Tracy & Son	16 58		
		113 53	
Carriage and wagon repairs :—			
Chapman Carriage Company		85 65	
Car tickets :—			
Boston Elevated Railway Company		65 00	
Expressage :—			
Sawin's Express	$36 94		
Sundry persons	6 55		
		43 49	
Furnishings, Worcester Brothers		5 93	
Hardware, tools and supplies :—			
Brock Brothers	$13 24		
Burditt & Bynner	27 30		
Dover Stamping Company	8 31		
J. D. Jewett & Co.	117 35		
Sundry persons	10 64		
A. J. Wilkinson & Co.	6 94		
James H. Wyeth & Co.	15 21		
		198 99	
Harness and repairs :—			
Thomas McMahon	$21 60		
Ordway, Kimball & Loring	14 44		
Sundry persons	6 30		
		42 34	
Heating building :—			
City Buildings Department		100 00	
Horse board :—			
Irving Blake	$275 00		
Fire Department	100 00		
		375 00	
Horse shoeing :—			
William Balmer	$52 75		
Street Department	16 30		
		69 05	
"Joyce on Electricity" :—			
Little, Brown & Co.		6 50	
Laundry work, F. L. Churchill		11 30	
Lighting :—			
Cambridge Electric Light Company		56 40	
Lettering signs, George D. Rollins		8 25	
Name plates, August Becker		33 75	
Amounts carried forward		$9,907 92	$10,600 00

ELECTRICAL DEPARTMENT, WIRES — Concluded.

Amounts brought forward		$9,907 92	$10,600 00
For paints, etc. :—			
Wadsworth-Howland Company		29 86	
Photographs, F. M. Ellis		11 00	
Plumbing, Henry T. Moulton		43 74	
Polishing and plating :—			
R. A. Faye & Co.		6 65	
Putting on fire alarm globes :—			
J. L. Danforth		3 75	
Stationery, printing, etc. :—			
Caustic & Claflin	$17 00		
Cotton & Gould	28 07		
Frost & Adams Company	13 45		
Stationery department	14 50		
Sundry persons	9 47		
Thorp & Martin Company	6 38		
		88 87	
Sundries		18 15	
Telephone rent and tolls		448 15	
Traveling expenses, Chas. F. Hopewell		10 40	
Use of team, P. Biggin		7 50	
Total			10,575 99
Balance unexpended			$24 01

ENGINEERING DEPARTMENT.

Appropriation			$11,000 00
EXPENDED.			
For salaries of :—			
Engineer, L. M. Hastings	$3,000 00		
Assistants	6,611 55		
Clerk, Mary E. Rowen	391 25		
		$10,002 80	
Atlas, George W. Stadly & Co.		25 00	
Car tickets :—			
Boston Elevated Railway Company		200 00	
Case, W. Fillmore & Co.		45 00	
"Experience in Sewer Construction" :—			
Association of Engineering Societies		12 00	
Expressage, sundry persons		4 05	
Flannel and cotton, D. W. Hyde & Co.		7 16	
Amounts carried forward		$10,296 01	$11,000 00

ENGINEERING DEPARTMENT — Concluded.

Amounts brought forward		$10,296 01	$11,000 00
For hardware, tools and repairs, and supplies :—			
Burditt & Bynner	$8 60		
F. A. White	26 60		
		35 20	
Instruments and repairs :—			
C. L. Berger & Sons	$34 55		
Julien P. Friez	8 50		
G. G. Ledder	27 85		
Miller & Shaw	54 95		
Sundry persons	2 25		
		128 10	
Photograph supplies and blue prints :—			
Sundry persons		4 79	
Pipe and labor, Cambridge Water Works		11 07	
Pump and hose, Smith & Thayer Co.		13 35	
Services : Examination of elimination of grade crossings :—			
John W. Ellis, Engineer		50 00	
Stationery, printing and drawing materials :—			
Cotton & Gould	$69 70		
Forbes Lithograph Manufacturing Company	12 00		
Frost & Adams Company	104 95		
J. A. Cummings Printing Company	35 69		
G. G. Ledder	8 75		
E. G. Soltmann	14 87		
Stationery Department	30 24		
Sundry persons	5 70		
Thorp & Martin Company	5 60		
		287 50	
Sundries		10 79	
Telephone rent and tolls		72 80	
Total			10,909 61
Balance unexpended			$90 39

ENGINEERING DEPARTMENT, ASSESSORS' PLANS.

Appropriation		$300 00
EXPENDED.		
For services of Engineers	$278 18	
Total		278 18
Balance unexpended		$21 82

EXECUTIVE DEPARTMENT.

Appropriation			$5,100 00
EXPENDED.			
For salaries of :—			
Mayor, Edgar R. Champlin	$3,500 00		
Clerk, Edward A. Counihan	1,000 00		
Stenographer, Georgie W. Sanborn	292 50		
Clerical assistance, J. H. Webber	5 00		
		$4,797 50	
Carriage hire :—			
Kenney & Clark	$6 00		
Sundry persons	3 00		
George F. Whiting & Co.	7 00		
		16 00	
Car tickets :—			
Boston Elevated Railway Company		5 00	
Stationery, printing and typewriter supplies :—			
Cotton & Gould	$28 80		
J. Frank Facey	14 00		
J. A. Cummings Printing Company	41 85		
John A. Lovell & Co.	11 99		
Stationery Department	56 18		
Sundry persons	4 88		
		157 70	
Sundries		1 65	
Telephone rent and tolls		114 61	
Total			5,092 46
Balance unexpended			$7 54

MAYOR'S CONTINGENT FUND.

Appropriation			$500 00
EXPENDED.			
Carriage hire :—			
George F. Whiting & Co.	$2 00		
Kenney & Clark	75 00		
		$77 00	
Refreshments, Colonial Club		81 25	
Stationery, Stationery Department		12 77	
Total			171 02
Balance unexpended			$328 98

FIRE DEPARTMENT.

Appropriation			$90,400 00
RECEIVED.			
For care of horse :—			
Electrical Department, Wires	$100 00		
Amount carried forward			$90,400 00

FIRE DEPARTMENT — Continued.

Amount brought forward			$90,400 00
	EXPENDED.		
For salaries of:—			
Chief, Thos. J. Casey	$2,000 00		
Assistant Chief, N. W. Bunker	998 55		
District Chief, N. W. Bunker	107 86		
Permanent men as per pay-rolls	54,348 80		
Call men as per pay-rolls	15,161 68		
Pension pay-roll:—			
Wm. Parks	516 00		
Edw. E. Priest	516 00		
John H. Robbins	516 00		
Jas. H. Skehan	473 00		
		$74,637 89	
Apparatus and repairs:—			
Abbot-Downing Company	$71 80		
Cornelius Callahan	20 00		
Wm. Campbell & Co.	5 27		
Duff Spring Company	6 00		
F. Ivers & Son	35 75		
T. H. Kneeland	37 00		
Manchester Locomotive Works	2,187 06		
Peter McMurray	29 35		
Miller & Shaw	64 21		
Miller Smoke Protector Company	5 00		
Chas. H. Morse	50 00		
Geo. Patterson	6 00		
O. F. Picott	15 00		
Alden H. Rollins	15 25		
Sundry persons	7 40		
Chas. Waugh & Co.	274 59		
		2,829 68	
Brooms, brushes, mops:—			
Auburn Brush & Mop Company	$15 00		
Wm. A. Haskell	9 00		
F. Pelkey	41 25		
		65 25	
Buttons, Scovill Manufacturing Co.		67 50	
Copper waste, Edw. H. Haskell		25 13	
Directories, E. F. Hunt & Co.		6 00	
Disinfectants, The Sulpho-Napthol Co.		24 00	
Drain work, Samuel McCulloch		146 95	
Dues, Gas Consumers' Association		9 00	
Electrical work and supplies		8 27	
Expressage and teaming:—			
Savage & Son	$14 98		
Sundry persons	8 65		
		23 63	
Fire hats:—			
J. R. Hopkins	$52 25		
Gleason & Bailey Manufacturing Co.	95 75		
		148 00	
Fuel:—			
Dennis, Thompson, Pierce Company	$453 47		
Metropolitan Coal Company	1,013 06		
		1,466 53	
Furniture, furnishings and bedding:—			
S. H. Harrington	$33 00		
D. W. Hyde & Co.	56 05		
G. W. Wiggin & Co.	26 50		
Worcester Brothers	442 44		
		557 99	
Gig-wagon, Abbot-Downing Company		225 00	
Amounts carried forward		$80,240 82	$90,400 00

FIRE DEPARTMENT — Continued.

Amounts brought forward . . .		$80,240 82	$90,400 00
For hardware, tools and supplies:—			
Brock Brothers	$58 96		
Burditt & Bynner	343 38		
C. W. Carman	5 78		
J. A. Holmes & Co.	6 69		
H. N. Hovey & Co.	6 73		
Sundry persons	15 29		
		436 83	
Harness and repairs:—			
Chas. E. Berry	$132 98		
Sumner A. Brooks	40 00		
Owen Doherty	37 25		
F. Ivers & Son	1 20		
Thos. McMahon	14 50		
Wm. H. Roberts	77 90		
		303 83	
Hay, grain and straw:—			
J. Cushing & Co.	$2,884 50		
C. F. & G. W. Eddy	256 40		
E. R. Luke & Co.	374 43		
Geo. G. Wright	136 45		
		3,651 78	
Heating Buildings:—			
Public Property Department . .		375 00	
Heating apparatus repairs:—			
Higgins & Co.		36 61	
Horses, P. H. Dardis		935 00	
Hoof remedy, Anglo-American Oil Co.		10 00	
Horse shoeing:—			
Wm. Balmer	$45 75		
Wm. Bell	58 50		
D. L. Bolger & Co.	66 50		
The Jas. Bolger Company . . .	30 75		
The Jas. Bolger Horse Shoeing Co. .	6 50		
M. Burke	65 00		
P. J. Callahan	67 00		
P. H. Dardis	63 25		
Elliott & Duvey	12 00		
W. F. Garrett	100 50		
John F. Gerry & Sons	120 00		
C. J. McCarthy	54 25		
M. Shaughnessy	16 00		
Bernard Smith	75 25		
Thos. Smith	73 00		
		854 25	
Hose, etc.:—			
Boston Woven Hose & Rubber Co.		$784 87	
House repairs:—			
Carpentry:—			
Michael A. Keenan	$81 00		
W. H. Norris	164 12		
John Quin	1 13		
M. F. Tracy & Son	11 14		
Doors, H. E. Ellms & Co. . . .	9 00		
Amounts carried forward . .	$266 39	$87,628 99	$90,400 00

FIRE DEPARTMENT — Continued.

Amounts brought forward . . .	$266 39	$87,628 99	$90,400 00
For painting :—			
Geo. Dunn	85 00		
J. J. Foley	81 40		
Plaster work, Wm. J. Heron & Co.	271 42		
Plumbing :—			
Brock Brothers	1 65		
John J. Long	75		
H. L. Rose	4 45		
Roof repairs :—			
John J. Blevins	117 40		
J. F. Pennell	121 22		
		949 68	
Ice :—			
Cambridge Ice Company . . .	$18 00		
Fresh Pond Ice Company . . .	31 98		
Independent Ice Company , . .	7 32		
		57 30	
Insignias, Miss B. Goldsmith . .		19 50	
Ladders, C. W. H. Moulton & Co. .		5 00	
Laundry work :—			
University City Laundry . . .		222 74	
Lighting :—			
Cambridge Electric Light Company .	$326 97		
Cambridge Gas Light Company .	438 40		
		765 37	
Lumber, Geo W. Gale Lumber Company		78 61	
Mill work, M. F. Tracy & Son . .		9 36	
Oil, polish, etc. :—			
Central Manufacturing Company .	$11 96		
Walter A Claflin	50		
Cochrane Chemical Company . .	14 34		
Edw. McDermott & Co. . . .	6 25		
Wm. F. Nye . . . . , .	6 53		
Alden Speare's Sons Company . .	34 10		
Standard Oil Company . . .	64 08		
Nelson P. Trickey	24 00		
		161 76	
Shavings, C. W. H. Moulton & Co. .		19 75	
Soap, powder, etc. :—			
Chas. R. Teele	$10 75		
Cleansing & Polishing Company .	4 50		
		15 25	
Soda, Mathieson Alkali Works . .		30 24	
Amounts carried forward . .		$89,963 55	$90,400 00

FIRE DEPARTMENT — Concluded.

Amounts brought forward		$89,963 55	$90,400 00
For stationery, printing, etc :—			
Cambridge Chronicle Company	$50 25		
J. A. Cummings Printing Company	12 55		
Stationery department	5 40		
		68 20	
Telephone rent and tolls		105 30	
Use of men and horses :—			
F. J. Coulter	$8 00		
T. A. Callaghan	11 00		
P H. Dardis	53 00		
Elliott & Duvey	19 00		
Austin Ford & Son	13 50		
Thomas McSorley	25 00		
Sundry persons	8 00		
		137 50	
Sundries		5 24	
Weighing, E. H. Harnden		9 85	
Work on hydrant maps, C. B. Parker		73 00	
Total			90,362 64
Balance unexpended			$37 36

HEALTH DEPARTMENT.

Appropriation			$20,000 00
	EXPENDED.		
For salaries of :—			
Medical Inspector, Dr. E. Farnham	$3,000 00		
Secretary, James B. Soper	1,200 00		
Clerks :—			
B. E. Dunn	633 19		
Grace E. Wyeth	206 50		
Temporary clerk	93 33		
Sanitary Inspectors :—			
Chas. A. Lincoln	950 00		
John McCormick	950 00		
Daniel W Parker	950 00		
John A. Jackson	908 51		
Driver of van, Richard M. O'Brien	750 00		
		$9,641 53	
Advertising :—			
Cambridge Chronicle Company	$9 00		
Cambridge Press	32		
		9 32	
Aid, City of Boston		13 71	
Ambulance repairs, Chas. Waugh & Co.		32 75	
Atlas, Geo. W. Stadly & Co.		35 00	
Bacteriologist, E. A. Darling, M. D.,		1,080 00	
Boxes, Chas. Place		14 00	
Board of sundry persons, Cambridge Hospital		5,450 45	
Car tickets, Boston Elevated Railway		500 00	
Carpentry, W. H. Norris		8 08	
Cases and bottles, U. S. Mailing Company		10 74	
Amounts carried forward		$16,795 58	$20,000 00

HEALTH DEPARTMENT — Continued.

Amounts brought forward		$16,795 58	$20,000 00
For cash paid for burying dead animals :—			
Edwin Farnham	$50 40		
M. J. Folsom	9 25		
Jas. B. Soper	45 00		
Sundry persons	3 50		
		108 15	
Harness and repairs and horse clothing :—			
L. C. Chase & Co.	$5 05		
Wm. H. Roberts	15 80		
		20 85	
Horse board and storage :—			
Geo. F. Whiting & Co.		360 00	
Horse shoeing, W. F. Garrett		33 50	
Medicine, drugs, etc. :—			
J. A. & W. Bird & Co.	$194 10		
Walter A. Claflin	48 10		
Sundry persons	4 72		
		246 92	
Medical supplies and apparatus :—			
Harvard Co-operative Society	$26 28		
R. C. Robinson & Co.	35 00		
Schlegel and Fottler	3 00		
Willard E Ward	27 00		
Wm. C. Wright	165 25		
		256 53	
Plumbing :—			
Geo. Dunn	$18 00		
Sundry persons	3 35		
		21 35	
Professional service, taking cultures :—			
E. A. McCarthy, M. D.		21 00	
Serving notices :—			
Geo H. Field	$2 40		
John F. Kelley	6 20		
Fred H Seavey	14 52		
Walter C. Wardwell	8 44		
		31 56	
School Inspectors :—			
Frank F. Carr, M. D.	$200 00		
Geo. P. Cogswell, M. D.	200 00		
Bessie D. Davis, M. D.	200 00		
A. W. Dudley, M. D.	200 00		
E. A. McCarthy, M. D.	100 00		
W. A. Putnam, M. D.	200 00		
N. V. Shannon, M. D.	200 00		
		1,300 00	
Stationery, printing, etc. :—			
Cambridge Chronicle Company	$316 50		
Cotton & Gould	49 35		
J. A. Cummings Printing Company	18 54		
Stationery department	16 51		
Sundry persons	9 48		
		410 38	
Sundries		32 47	
Telephone rent and tolls		246 59	
Amounts carried forward		$19,884 88	$20,000 00

HEALTH DEPARTMENT — Concluded.

Amounts brought forward . . .		$19,884,88	$20,000 00
For tools, hardware and supplies :—			
Burditt & Bynner	$20 93		
Morss & Whyte	5 00		
Sundry persons	10 51		
		36 44	
Use of horses and drivers :—			
M. J. Fairbanks	$21 00		
Geo. F. Whiting & Co. . . .	53 25		
		74 25	
Total			19,995 57
Balance unexpended . . .			$4 43

HEALTH DEPARTMENT.

TEMPORARY HOSPITAL.

Appropriation			$7,250 00
RECEIVED.			
Board, sundry persons	$142 85		
Gauze, Cambridge Hospital . . .	19 67		
Sundries, John Toye	10 00		
		$172 52	
EXPENDED.			
For salaries of :—			
Physician, David C. Dow, M. D. .	$642 86		
Matron, Elizabeth Heustis . . .	696 43		
Houseman, James J. Reagan . .	394 00		
Nurses	1,860 22		
Cooks	131 57		
Laundresses	136 82		
Temporary help	85 71		
		3,947 61	
Cleaning :—			
Mrs. Mary Maloney	$6 00		
Mrs. Jane McBride	3 57		
		9 57	
Clothing, dry goods, and bedding :—			
Jordan, Marsh & Co.	$265 86		
Robert Josselyn	12 00		
George A. Odiorne & Co. . . .	20 25		
		298 11	
Expressage and moving furniture :—			
J. R. Hersum	$30 18		
Sundry persons	79		
		30 97	
Fuel :—			
Dennis-Thompson-Pierce Company .	$95 59		
George G. Page Box Company . .	4 00		
		99 59	
Amounts carried forward . .		$4,385 85	$7,250 00

HEALTH DEPARTMENT, TEMPORARY HOSPITAL — Concluded.

Amounts brought forward . . .		$4,385 85	$7,250 00
For furniture, furnishings and household supplies :—			
Allen-Thompson-Whitney Company .	$76 17		
G. W. Bent & Co.	299 04		
Jordan, Marsh & Co.	83 00		
Worcester Brothers	26 05		
		484 26	
Hardware, tools and supplies :—			
Brock & Eaton	$8 80		
Burditt & Bynner	28 25		
Sundry persons	2 58		
		39 63	
Heating apparatus, Magee Furnace Co. .		8 50	
House repairs :—			
Carpentry :—			
John Nesbitt	$219 47		
W. H. Norris	68 51		
		287 98	
Painting, varnishing, etc. :—			
J. L P. Ackers		157 62	
Plaster work, Harrington & Howell .		6 35	
Plumbing, Levi Hawkes . . .		742 76	
Ice, Fresh Pond Ice Company . .		10 06	
Lighting, Cambridge Gas Light Company		63 30	
Medicines and drugs :—			
Walter A. Claflin	$2 60		
John Toye	171 64		
		174 24	
Medical apparatus and supplies :—			
Cambridge Hospital	$33 95		
Fox, Fultz & Co.	16 19		
J. Frank Gear	20 23		
J. A. E. Sellar	87 52		
		157 89	
Professional services, J. L. Hildreth, M.D.		10 00	
Service pipe, etc. :—			
Cambridge Gas Light Company . .		84 81	
Stationery, Hooper, Lewis & Co. .		8 40	
Subsistence supplies :—			
Mrs. C. F. Belcher & Co. . . .	$7 75		
Lewis B. Chandler	182 02		
Robert Elder, Jr.	109 40		
William T Gibson	108 80		
J. A. Holmes & Co.	63 68		
Sundry persons	1 70		
Yerxa & Yerxa	107 91		
		581 26	
Sundries		7 33	
Telephone rent and tolls . . .		39 65	
Total			$7,249 89
Balance unexpended . .			11

INSPECTION OF MILK AND VINEGAR.

Appropriation			$1,500 00
	RECEIVED.		
For milk licenses		$149 00	
	EXPENDED.		
For salaries of :—			
Inspector, F. A. Dunbar	$825 00		
Inspector, Philip P. Sharples	75 00		
Deputy, J. F. Wheeler	420 00		
		1,320 00	
Car tickets :—			
Boston Elevated Railway Company		30 00	
Cash paid for samples, etc. :—			
J. F. Wheeler	$60 97		
P. P. Sharples	2 27		
		63 24	
Drugs, etc. :—			
W. A. Claflin	$19 00		
Sundry persons	2 89		
		21 89	
Printing :—			
Cambridge Chronicle Company	$26 00		
J. A. Cummings Printing Company	6 78		
		32 78	
Stationery :—			
Harvard Co-operative Society	$2 35		
Stationery Department	12 53		
		14 88	
Sundries		16 58	
Total			$1,499 37
Balance unexpended			63

INSPECTION OF PROVISIONS.

Appropriation			$800 00
	EXPENDED.		
For salary of Inspector of Provisions, C. E. Haddock		$700 00	
Chemicals, drugs, etc. :—			
Walter A. Claflin	$69 60		
A Cunningham	12 70		
Sundry persons	4 75		
Henry Thayer & Co.	11 00		
		98 05	
Total			798 05
Balance unexpended			$1 95

INTEREST.

Appropriation		$150,100 00
RECEIVED.		
For accrued interest	$686 10	
Betterments	49 21	
Interest on deposits	1,935 88	
" " sewer assessments	24 25	
" " sidewalk assessments	34 95	
" " taxes	6,974 97	
	$9,705 36	
EXPENDED.		
For interest on —		
Daniel White Charity	$300 00	
Funded loan	139,154 00	
Sanders Temperance Fund	600 00	
Temporary loans	9,961 96	
Total		150,015 96
Balance		$84 04

LAND DAMAGES.

Appropriation			$14,100 00
Additional appropriation			8,552 50
			$22,652 50
EXPENDED.			
For examination of titles :—			
Wm. V. Thompson		$96 25	
Boylston Street :—			
Land and damage :—			
Wm. Read, *et als.*		5,000 00	
Erie Street :—			
Land and damage :—			
Alfred Bailey	$300 00		
Mary E. Davren	1,100 00		
		1,400 00	
Green Street :			
Land and damage :—			
Thos. B. Hilton	$2,000 00		
Julia A. Morgan	2,100 00		
		4,100 00	
Inman Court :—			
Land and damage :—			
Nellie T. Carroll		3,000 00	
Amounts carried forward		$13,596 25	$22,652 50

LAND DAMAGES — Concluded.

Amounts brought forward . . .		$13,596 25	$22,652 50
For Magee Street:—			
Land and damage:—			
Jas. Dunn	$75 00		
Dennis Halloran	135 00		
Sarah W. Jacques	1,088 97		
Heirs of Chas. T. Seavey, *et al.* .	582 72		
		1,881 69	
Massachusetts Avenue:—			
Land and damage:—			
Edmund A. Whitman . . .		250 00	
Webster Avenue and Willow Street:—			
Land and damage:—			
Donald McDonald		25 00	
Total			15,752 94
Balance unexpended . .			$6,899 56

LAW DEPARTMENT.

Appropriation		$5,050 00
RECEIVED.		
For services of City Solicitor . .	$500 00	
EXPENDED.		
For salary of City Solicitor:—		
G. A. A. Pevey	3,500 00	
Advertising:—		
Cambridge Chronicle Company . .	25 00	
Atlas, George W. Stadly & Co. . .	35 00	
Appraising, Albert B. Hopkins . .	15 00	
Car tickets:—		
Boston Elevated Railway Company .	100 00	
Cash expended for summoning witnesses:—		
A. M. Stewart	10 36	
Cash expended for sundries:—		
G. A. A. Pevey	61 87	
Copies of manuscripts:—		
Middlesex County	17 50	
Directory, E. F. Hunt & Co. . .	3 00	
Entry of cases, G. A. A. Pevey . .	6 00	
Amounts carried forward . .	$3,773 73	$5,050 00

LAW DEPARTMENT — Concluded.

Amounts brought forward		$3,773 73	$5,050 00
For photographs :—			
Fred M. Ellis	$46 00		
D. W. Butterfield	6 00		
		52 00	
Rent of Boston Office, G. A. A. Pevey		237 50	
Searching records, Ralph Woodworth		7 00	
Services :—			
W. Fillmore	$25 00		
Charles L. Scudder, M. D.	50 00		
George F. Stiles	2 35		
G. L. Walton, M. D.	25 00		
		102 35	
Serving notices :—			
Sundry persons	$4 82		
Walter C. Wardwell	6 32		
		11 14	
Stationery, printing and typewriter supplies :—			
T. H. Ball	$10 40		
George E. Crosby & Co.	91 00		
Stationery Department	37 74		
Sundry persons	7 75		
		146 89	
Subscription, "Banker and Tradesman"		5 00	
Sundries		12 75	
Tabulated statements, Charles A. Miner		10 50	
Telephone, rent and tolls		64 23	
Typewriting and stenography :—			
Viola M Bryant	$20 00		
George B. French	567 00		
Saidee M. Swift	19 00		
		606 00	
Typewriter repairs, James J. Shannon & Co.		9 50	
Total			5,038 59
Balance unexpended			$11 41

OVERSEERS OF THE POOR.

CITY HOME.

Appropriation			$21,750 00
RECEIVED.			
For barrels		$26 14	
Board		611 57	
Burial		8 15	
Grease and bones		60 00	
Old iron, brass and lead		14 74	
Rags		7 21	
Recaning chairs		2 10	
Weighing fees		19 06	
Amounts carried forward		$748 97	$21,750 00

OVERSEERS OF THE POOR, CITY HOME — Continued.

Amount brought forward			$21,750 00
	EXPENDED.		
For salaries of :—			
Superintendent, M. L. Eldridge	$1,500 00		
Assistant Superintendent, Samuel F. Norris	782 15		
Sundry house employees	4,784 75		
Organist, C. M. Walker	100 00		
		7,166 90	
Advertising, Boston Herald Company		7 88	
Board and care :—			
Beverly Hospital	$56 00		
Carney Hospital	60 11		
Massachusetts General Hospital	14 00		
		130 11	
Boots, shoes and repairs :—			
Jordan, Marsh & Co.	$11 10		
William Myers	17 65		
Parker, Holmes & Co.	36 00		
John Quinn	36 15		
A. G. Swett	74 95		
Sundry persons	6 15		
		182 00	
Burials, H. D. Litchfield		30 75	
Burial fees, Cemetery Department		25 00	
Car tickets :—			
Boston Elevated Railway Company		90 00	
Cash expended for sundries, M. L. Eldridge		348 82	
Clothing, dry goods and bedding :—			
Brown, Durrell & Co.	$495 24		
J. H. Corcoran & Co.	2 00		
D. W. Hyde & Co.	24 55		
Jordan, Marsh & Co.	348 92		
M. H. Miller	30 00		
L. Morse & Co.	25 00		
North, Fiske & Co.	18 00		
J. O. Smith & Co.	278 75		
		1,222 46	
Directory, W. A. Greenough & Co.		3 00	
Disinfectants :—			
R. S. Downe	$5 00		
India Alkali Works	16 74		
F. W. Little	6 00		
		27 74	
Expressage :—			
Bancroft's Express	$24 96		
Boyle Express Company	1 50		
		26 46	
Amounts carried forward		$9,261 12	$21,750 00

OVERSEERS OF THE POOR, CITY HOME — Continued.

Amounts brought forward		$9,261 12	$21,750 00
For fuel :—			
Baker-Hunnewell Company	$172 50		
Dennis-Thompson-Pierce Company	92 00		
Metropolitan Coal Company	1,088 25		
Weighing, E. H. Harnden	13 25		
		1,366 00	
Furniture, furnishings and household supplies :—			
Allen-Thompson-Whitney Company	$30 00		
Dover Stamping Company	3 11		
Greenwood & Co.	32 23		
A. H. Hews & Co.	7 14		
Jordan, Marsh & Co.	81 40		
C. S. Knowles	80 44		
Mitchell, Woodbury & Co.	47 16		
John H. Pray, Sons & Co.	47 93		
Prescott & Co.	19 84		
F. A. White	7 95		
A. J. Wilkinson & Co.	19 10		
Worcester Brothers	20 82		
		397 12	
Gas, Cambridge Gas Light Company		195 10	
Hardware, tools and supplies :—			
Burditt & Bynner	$75 36		
D. W. Gage	3 00		
F. A. White	38 79		
		117 15	
House repairs :—			
Carpentry, Joseph J. Foley		178 00	
Heating apparatus :—			
William Campbell & Co.	$171 55		
Ingalls & Kendricken	56 71		
		228 26	
Lighting apparatus, Geo. F. Dickson		10 91	
Painting and varnishing :—			
C. K. Leach	$110 65		
J. J. Shedd	19 90		
		130 55	
Papering :—			
George W. Smith	$6 31		
J. H. and J. P. Thayer & Co.	27 45		
		33 76	
Plastering and whitening :—			
J. F. Brosnahan	$254 35		
Clarence G. Reed	76 85		
		331 20	
Amounts carried forward		$12,249 17	$21,750 00

OVERSEERS OF THE POOR, CITY HOME — Continued.

Amounts brought forward		$12,249 17	$21,750 00
For plumbing :—			
D. W. Gage	$6 85		
Hercules Iron and Supply Company	138 87		
John H. Stevens & Co.	61 23		
W. H. Sweeney	250 84		
		457 79	
Roof repairs, John J. Blevins		123 66	
Sundry repairs		16 02	
Ice, Cambridge Ice Company		244 80	
Labor :—			
Michael Martin	$149 83		
Jeremiah Noonan	7 50		
Andrew Riley	28 50		
		185 83	
Lumber, lime and cement :—			
Clark Brothers	$14 10		
John S. Clary	217 34		
George W. Gale Lumber Company	47 87		
		279 31	
Medicines, drugs and chemicals :—			
J. F. Fuller & Co	$10 00		
F. L. Hayden Company	15 00		
Elie H. La Pierre	204 28		
Sundry persons	4 62		
John A. Tupper	25 10		
		259 00	
Medical and surgical apparatus and instruments :—			
Codman & Shurtleff	$5 13		
J. Frank Gear	10 55		
Elie H La Pierre	32 25		
Leach & Greene	6 00		
		53 93	
Nurse, Louise F. King		10 00	
Oil, putty, paints, etc. :—			
W. A. Wood & Co.	$17 71		
Wood Brothers	23 84		
		41 55	
Pipe and fittings :—			
Walworth Manufacturing Company		96 27	
Plants :—			
Schlegel & Fottler	$14 60		
Sundry persons	3 50		
		18 10	
Professional attendance :—			
J. L. Hildreth, M. D.		10 00	
Repairing clocks :—			
Hersey Manufacturing Company	$10 15		
Sven Nelson	7 10		
		17 25	
Rubber goods, C. S. Knowles		34 86	
Soap, Standard Chemical Company		95 00	
Spectacles, A. Paul & Co.		8 00	
Amounts carried forward		$14,200 54	$21,750 00

OVERSEERS OF THE POOR, CITY HOME — Concluded.

Amounts brought forward		$14,200 54	$21,750 00
For stationery and printing :—			
F. W. Barry, Beale & Co.	$5 44		
Sundry persons	1 50		
		6 94	
Subscriptions :—			
F. S. Hill	$2 50		
James W. Hunnewell	24 00		
		26 50	
Subsistence supplies :—			
Bowman & Vaughan	$56 16		
Boyd, Dalton & Co.	443 66		
Boston Packing and Provision Co.	60 97		
George H. Chessman & Co.	51 96		
Cobb, Bates & Yerxa	446 96		
John Cummings Estate	40 00		
Eastern Salt Company	25 25		
R. S. Edwards & Co.	95 00		
David, Ellis & Co.	183 84		
N. F. Goldsmith & Co.	24 25		
G. H. Hammond Company	222 88		
J. A. Hathaway & Co.	1,824 44		
J. J. Hill	427 32		
William S. Hills Company	312 10		
J. A. Holmes & Co.	31 50		
Home Mills Cereal Company	5 00		
Lyman L. Kimball & Co.	350 13		
W. H. Lerned & Son	51 90		
A. J. Littlefield & Co.	175 78		
Isaac Locke & Co.	32 00		
A. J. Lovell & Co.	87 48		
McPherson Brothers	12 85		
National Biscuit Company	30 87		
Fred D. Norton	381 97		
The Oakdale Manufacturing Company	156 00		
Oriental Tea Company	176 02		
George G. Parker	33 66		
A. G. Patch & Co.	35 06		
F. Putnam & Co.	19 56		
George E. Richardson & Co.	12 25		
Howard W. Spurr & Co.	313 83		
William B. Stearns	42 80		
Sundry persons	15 18		
Swan, Newton & Co.	154 07		
L. A. Treat	10 40		
W. T. Warren	7 75		
David Whiting & Sons	890 10		
Sweeney, Lane & Co.	75 60		
		7,316 55	
Sundries		5 51	
Telephone, rent and tolls		63 25	
Windows		5 40	
Total			21,624 69
Balance unexpended			$125 31

OVERSEERS OF THE POOR.

FARM DEPARTMENT.

Appropriation		$5,300 00

RECEIVED.

For farm products	$5,082 43	

EXPENDED.

For labor on farm :—			
Farmer, James Walsh	$782 50		
Market-man, John Moynahan	390 00		
Employes	2,629 10		
		3,801 60	
Boxes, M. J. Gallagher & Co.		6 25	
Bulbs and seeds :—			
Charles H. Rowe	$49 20		
Schlegel & Fottler	52 06		
		101 26	
Cows, F. W. Trelegan		130 00	
Hay and grain :—			
Clark Brothers	$314 46		
S. C. Frost	43 50		
		357 96	
Labor, John Kenney		120 00	
Lumber, Geo. W. Gale Lumber Company		54 00	
Manure :—			
George D. Burbeck	$5 00		
James Doherty	12 31		
David O'Mara	70 76		
C. E. Richardson	21 50		
B. F. St. George & Son	26 75		
Sundry persons	14 19		
John Tracy	6 51		
John Ward	14 45		
		171 47	
Pigs :—			
Daniel L. Tappan	$17 50		
T. G. Whiting	135 00		
		152 50	
Rent, Mercantile Wharf Corporation		40 00	
Sundries		5 83	
Tools and hardware, Joseph Breck & Sons		22 70	
Total			4,963 57
Balance unexpended			$336 43

OVERSEERS OF THE POOR.

HOUSE OFFAL DEPARTMENT.

Appropriation			$26,100 00
RECEIVED.			
For sale of house offal		$7,322 05	
EXPENDED.			
For labor as per pay-rolls		$21,807 15	
English vegetable food, Knight Bros.		6 00	
Germol, Read Holliday & Sons		5 00	
Grease, Sudbury Oil and Supply Co.		17 46	
Hardware, tools and supplies :—			
Dodge, Haley & Co.	$15 72		
A. S. Lohnes & Co.	13 95		
M. C. Warren & Co.	11 46		
		41 13	
Harness and repairs :—			
Jos. A. Ryan	$138 25		
Sartwell, Heinhold & Humphrey	31 50		
		169 75	
Hay, grain, straw, etc. :—			
Clark Brothers	$433 52		
J. Cushing & Co.	1,538 66		
C. F. & G. W. Eddy	557 43		
Lord & Webster	134 24		
L. G. Stone	7 50		
		2,671 35	
Horses :—			
T. W. Trelegan	$125 00		
Welch & Hall	97 20		
		222 20	
Horse shoeing :—			
Wm. Bell	$8 50		
A. W. Ganong	1 50		
A. S. Lohnes & Co.	6 00		
John McMahon & Co.	24 87		
Street department	342 75		
		383 62	
Labor, Hugh Toomey		120 00	
Lumber and mill work :—			
Geo. W. Gale Lumber Company		102 15	
Oil, paints, etc. :—			
Chas. F. Milliken & Co.	$7 25		
Wood Brothers	47 00		
		54 25	
Tubs		2 50	
Wagon repairs :—			
Duff Spring Company	$12 63		
Edson Manufacturing Company	4 50		
J. E. Fitzgerald	143 75		
Jas. Hickey	52 90		
A. S. Lohnes & Co.	264 20		
		477 98	
Total			$26,080 54
Balance unexpended			$19 46

OVERSEERS OF THE POOR.

OUTSIDE AID DEPARTMENT.

Appropriation,		$52,000 00

RECEIVED.

For aid to, board and burial of sundry paupers	$3,141 30	

EXPENDED.

For salaries of:—			
Secretary, D. P. Muzzey	$1,500 00		
Visitor V. Danforth	521 66		
Agent, H. K. Estabrook,	1,112 01		
Driver, John Moynahan	392 50		
Clerk, Addie M. Benson	626 00		
		4,152 17	
Aid to sundry persons as per pay rolls		1,558 72	
By cities and towns:—			
City of Beverly	$96 70		
Boston	1,432 67		
Chelsea	890 55		
Everett	109 05		
Haverhill	92 89		
Lowell	3 00		
Malden	79 00		
Medford	43 01		
Melrose	33 50		
Newton	31 50		
Somerville	772 67		
Springfield	1 80		
Town of Arlington	$18 77		
Athol	159 00		
Belmont	125 46		
Brookline	12 00		
Cohasset	48 86		
Danvers	96 00		
Georgetown	14 25		
Hudson	63 00		
Norwood	42 25		
Peabody	190 00		
Revere	69 34		
Rockland	5 00		
Winchester	48 00		
Wrentham	22 00		
		4,500 27	
Atlas, Geo. W. Stadly & Co.		35 00	
Ambulance fees, Police Department		168 00	
Binding:—			
E. W. Bettinson	$6 00		
J. H. H. McNamee	136 00		
		142 00	
Amounts carried forward		$10,556 16	$52,000 00

OVERSEERS OF THE POOR, OUTSIDE AID DEPARTMENT — Continued.

Amounts brought forward		$10,556 16	$52,000 00
For board and care at:—			
Boston Children's Aid Society	$2,384 44		
Cambridge Hospital	131 41		
Carney Hospital	949 38		
Mrs. Albert C. Crane's	146 00		
Danver's Insane Hospital	1,394 74		
Mrs. Bessie A. Dinsmore	53 20		
Mrs. Mary Gillpatrick's	38 42		
Hospital Cottages for Children	210 31		
Massachusetts General Hospital	19 00		
Mass. Hospital for Dipsomaniacs	1,195 58		
Mass. Hospital for Epileptics	738 67		
Mass. School for the Feeble Minded	1,948 04		
Medfield Insane Asylum	5,160 00		
Northampton Insane Hospital	169 46		
Thos. F. Smith's	169 22		
Mrs. Geo. H. Sweet's	169 46		
The Children's Hospital	109 00		
The Children's Mission	60 71		
The Convalescent Home	75 00		
Taunton Insane Hospital	68 71		
Howard E. Upton	10 00		
Westborough Insane Hospital	2,780 88		
Worcester Insane Asylum	2,718 38		
Worcester Insane Hospital	10,631 36		
		31,331 37	
By Commonwealth of Massachusetts:—			
Board of Henry Pervoe	$10 47		
At Danvers Insane Hospital	60 82		
Hospital for Dipsomaniacs	330 10		
Hospital for Epileptics	62 68		
Mass. School for Feeble Minded	154 07		
Medfield Insane Asylum	597 60		
School for Feeble Minded	70 11		
State Almshouse, Insane	1,129 20		
State Almshouse, Pauper	561 93		
State Farm, Insane	730 09		
State Farm, Pauper	16 85		
State Hospital, Insane	658 80		
State Hospital, Paupers	312 58		
Taunton Insane Hospital	27 39		
Westborough Insane Hospital	908 21		
Worcester Insane Hospital	1,300 43		
		6,931 24	
Boots and shoes, W. T. Roop & Co.		6 75	
Boxes, Office, Bank and Library Co.		6 17	
Burials, H. D. Litchfield		188 40	
Burial fees, Cemetery Department		143 00	
Carpentry, W. H. Norris		13 63	
Car tickets:—			
Boston & Albany Railroad Co.	$2 00		
Boston Elevated Railway Company	300 00		
Boston & Maine Railroad Co.	34 50		
		336 50	
Amounts carried forward		$49,513 22	$52,000 00

OVERSEERS OF THE POOR, OUTSIDE AID DEPARTMENT — Continued.

Amounts brought forward . . .		$49,513 22	$52,000 00
For cash expended :—			
H. K. Estabrook	$58 18		
Henry C. Jones	36 20		
Sundry persons	9 50		
		103 88	
Carriage hire :—			
M. J. Fairbanks	$17 00		
Sundry persons	11 00		
		28 00	
Directories :—			
W. A. Greenough & Co. , . .	$99 85		
Henry M. Meek	13 50		
Sampson, Murdock & Co. . . .	5 00		
W. E. Shaw	6 00		
		124 35	
Execution of court :—			
Geo. A. Marden, Treas., Com. of Mass.		153 98	
Furniture, furnishings, etc. :—			
Harvard Co-operative Society . .	$3 00		
Jordan, Marsh & Co. . . .	5 00		
		8 00	
Ice, Fresh Pond Ice Company . .		20 80	
Leather jacket, House of Good Samaritan		7 00	
Lighting :—			
Cambridge Electric Light Company .	$16 13		
Cambridge Gas Light Company .	14 40		
		30 53	
Medicines, drugs, etc. :—			
Wm. H. Frazier	$11 45		
E. C. Gove	10 25		
F. L Hayden & Co.	19 50		
Elie H. La Pierre	99 79		
Reycroft Pharmacy Company . .	48 91		
Sundry persons	6 79		
		196 69	
Medical and surgical apparatus and instruments :—			
L. H. Buzzel & Vail	$7 10		
J. Frank Gear	7 65		
Harvard Co-operative Society . .	21 90		
		36 65	
Painting signs, etc., Geo. H. Hughes .		55 05	
Paper bags, etc., Wm. H. Claflin .		8 72	
Partial payment of ticket to California, H. K. Estabrook		25 00	
Professional services :—			
S. R. Lancaster, M. D. . . .	$24 00		
R. Wetherbee, M. D. . . .	90 00		
Sundry persons	7 00		
		121 00	
Amounts carried forward . .		$50,432 87	$52,000 00

OVERSEERS OF THE POOR, OUTSIDE AID DEPARTMENT — Concluded.

Amounts brought forward		$50,432 87	$52,000 00
For stationery and printing, and typewriter supplies :—			
F. W. Barry, Beale & Co.	$19 65		
Caustic & Claflin	9 00		
Cotton & Gould	137 00		
J. A. Cummings Printing Company	107 62		
John H. Ford	52 15		
Library Bureau	17 26		
Sundry persons	11 63		
		354 31	
Subsistence supplies :—			
Theo. E. Blake	$11 00		
Boston Packing and Provision Company	17 50		
Boyd, Dalton & Co.	112 37		
R. S. Edwards & Co.	89 03		
Wm. S. Hills & Co.	291 60		
Lyman L. Kimball & Co.	42 95		
McPherson Brothers	8 50		
Chas. E. Moody & Co.	50 72		
Oriental Tea Company	161 20		
F. Putnam & Co.	8 60		
Fred. C. Small & Co.	123 20		
Howard W. Spurr & Co.	52 24		
Sundry persons	7 35		
L. A. Treat	20 00		
		996 26	
Sundries		26 36	
Telephone, rent and tolls		141 72	
Typewriter remodelled, Hammond Typewriter Company		28 50	
Use of horse and buggy, Ralph Smith & Co.		6 00	
Total			51,986 02
Balance unexpended			$13 98

PARK DEPARTMENT.

CONSTRUCTION.

Appropriation		$77,581 70
Additional appropriation		50,000 00
		$127,581 70

RECEIVED.

For rent	$1,962 20
Sundries	5 47
Wire	15 68
	$1,983 35

EXPENDED.

For East Cambridge Embankment :—		
Analysis of sea water, F. A. Dunbar	$65 00	
Filling, sundry persons	5 20	
Hardware and supplies	4 22	
Amounts carried forward	$74 42	$127,581 70

PARK DEPARTMENT, CONSTRUCTION — Continued.

Amounts brought forward . . .	$74 42		$127,581 70
For pay-rolls :—			
Engineers . . . $6 25			
Laborers 2 00			
	8 25		
Total expenses, E. Cambridge Embankment		82 67	
For General Account :—			
Salary of General Superintendent of Parks, Howard E. Whiting. .	$1,883 31		
Anchors, ropes, etc., Jas Robertson.	11 18		
Bicycle repairs, J L. Mosely . .	18 75		
Carpentry, W. Fillmore & Co. .	9 65		
Carriage hire, Geo. F. Whiting & Co.	25 00		
Carriage repairs :—			
F. Ivers & Son . . $52 85			
Chas. Waugh & Co. . 4 00			
	56 85		
Car tickets, Boston Elevated Railway Company	300 00		
Entertainment of Park Committee, The Colonial Club . . .	34 05		
Expressage, Hatch & Co. . . .	9 15		
Hardware, tools and repairs, and supplies :—			
Jos. Breck & Sons . . $173 71			
Burditt & Bynner . . 19 92			
Jas. Maitland . . . 5 52			
Sundry persons . . 5 80			
Walworth Mfg. Company 9 35			
	214 30		
Harness, Geo. F. Whiting & Co. .	38 00		
Heliotypes, Heliotype Printing Company	45 00		
Horse board :—			
Street Department . . $195 00			
Geo. F. Whiting & Co. . 300 00			
	495 00		
Horse shoeing, W. F. Garrett . .	33 25		
Lawn seed, Burditt & Bynner . .	35 00		
Lettering signs, C. H. Buck & Co. .	7 00		
Pay-rolls :—			
Engineers . . . $15 00			
Laborers . . . 1 00			
	16 00		
Rent, The Prospect Union . .	120 00		
Rubber boots and coats :—			
C. J. Bailey & Co. . . . $23 32			
Sidney R. Baxter & Co. . 34 20			
	57 52		
Amounts carried forward . .	$3,409 01	$82 67	$127,581 70

PARK DEPARTMENT, CONSTRUCTION — Continued.

Amounts brought forward . . .	$3,409 01	$82 67	$127,581 70
For services of landscape architects :—			
Olmsted Brothers	673 56		
Stationery, printing, etc. :—			
J. A. Cummings Printing Company . . . $66 56			
Sundry persons . . 4 51			
	71 07		
Sundries	3 82		
Total expenses, general account . .		4,157 46	
The Nursery :—			
Fuel, Coleman Brothers . . .	$5 50		
Pay-roll, laborers	925 67		
Shrubs, Shady Hill Nursery Company	75 00		
Sundries	1 18		
Total expenses, The Nursery . .		1,007 35	
Office expenses :—			
Salaries of clerks :—			
Grace E. Hixon . . $626 00			
Jessie Wilde . . . 20 00			
	$646 00		
Atlas, Geo. W. Stadly & Co. . .	35 00		
Books on Horticulture :—			
C. E. Lauriat Company . . .	20 00		
Pay-rolls, Engineers	38 25		
Stationery, printing, etc. :—			
Cambridge Chronicle Co. $116 25			
Cotton & Gould . . 50 75			
Stationery Department . 59 97			
Sundry persons . . 11 00			
	237 97		
Sundries	3 30		
Telephone rent and tolls . . .	165 99		
Typewriter :—			
Smith-Premier Typewriter Co. .	55 00		
Total expenses, The Office . . .		1,201 51	
Rindge Field :—			
Lighting :—			
Cambridge Electric Light Company	$50 00		
Lumber, E. D. Sawyer & Co. . .	4 88		
Amounts carried forward . .	$54 88	$6,448 99	$127,581 70

PARK DEPARTMENT, CONSTRUCTION — Continued.

Amounts brought forward . . .	$54 88	$6,448 99	$127,581 70
For pay-rolls :—			
Engineers . . . $11 62			
Laborers . . . 2 00			
	13 62		
Total expenses, Rindge Field . .		68 50	
Washington Elm :—			
Paving, H. Gore & Co. . . .	$27 00		
Total expenses, Washington Elm . .		27 00	
River Parkway, Section A :—			
Cedar rails, E. W. Farrell . . .	36 36		
Fences :—			
David F. Burns . . $27 50			
A. B. Robbins . . 102 86			
	130 36		
Filling, sundry persons .	753 12		
Iron ladders :—			
G. W. & F. Smith Iron Co. . .	112 50		
Lighting :—			
Welshbach Street Light Company	151 41		
Pay-rolls :—			
Engineers . . . $57 88			
Laborers 555 29			
	613 17		
Rent of steam roller :—			
Massachusetts Broken Stone Co. .	146 67		
Stone :—			
Sweatt & Gould . . $341 74			
H. Gore & Co. . . 32 45			
	374 19		
Teaming, sundry persons . . .	307 25		
Water Works, repairs and supplies	20 08		
Total expenses, Section A . . .		2,645 11	
River Parkway, Section B :—			
Ballast, J C. Colman & Son . .	1,241 20		
Cedar rails, Edward W. Farrell .	64 80		
Cement :—			
Fiske & Co. . . . $7 05			
D. W. Lewis . . . 284 28			
Windsor Cement Company 32 40			
	323 73		
Amounts carried forward . .	$1,629 73	$9,189 60	$127,581 70

PARK DEPARTMENT, CONSTRUCTION — Continued.

Amounts brought forward . . .	$1,629 73	$9,189 60	$127,581 70
For fences :—			
David F. Burns . . $27 50			
Chelmsford Foundry Co. 1,638 65			
A. B. Robbins . . 3,267 01			
———	4,933 16		
Filling, sundry persons . . .	4,710 89		
Hardware, tools and supplies :—			
Burditt & Bynner	10 74		
Iron ladders :—			
G. W. & F. Smith Iron Co. . .	243 75		
Laying concrete, Simpson Brothers .	116 63		
Lighting, Welsbach St. Lighting Co.	281 21		
Lumber, E. D. Sawyer & Co. . .	8 16		
Mill work, D. C. Scranton . .	11 00		
Pay-rolls :—			
Engineers . . $1,066 99			
Laborers . . 6,848 78			
———	7,915 77		
Plants :—			
Edw. Gillett . . . $13 50			
Water Works Department 35 77			
———	49 27		
Sidewalks, Trs. of Riverbank Court	190 67		
Stakes, etc., John Quin . . .	25 15		
Stone :—			
H. Gore & Co. . . . $96 31			
Sweatt & Gould . . 870 26			
———	966 57		
Sundries	12 34		
Teaming, sundry persons . . .	567 45		
Water Works, repairs and supplies .	15 68		
Work on sea wall, Thos. A. Rowe .	2,792 97		
Total expenses, Section B . . .		24,481 14	
River Parkway, Section C :—			
Advertising and printing :—			
Boston Daily Advertiser . $10 50			
Boston Herald Company . 8 00			
Press Newspaper Co. . 3 97			
———	$22 47		
Carpentry, W. Fillmore & Co. . .	17 56		
Amounts carried forward . .	$40 03	$33,670 74	$127,581 70

PARK DEPARTMENT, CONSTRUCTION — Continued.

Amounts brought forward . . .	$40 03	$33,670 74	$127,581 70
For carriage hire :—			
Ralph Smith & Co. . . $18 00			
Geo. F. Whiting & Co. . 6 00			
	24 00		
Cash expended, G. A. A. Pevey . .	10 20		
Examining records, Ralph Woodworth	15 00		
Filling, sundry persons . . .	1,597 59		
Pay-rolls :—			
Engineers . . . $498 89			
Laborers 336 59			
	835 48		
Recording deeds, E. O. Childs . .	5 27		
Rope, L. W. Ferdinand & Co. . .	9 25		
Services :—			
Jas. W. Coleman . . $75 00			
Geo. Everett . . . 125 00			
J. P. Falt . . . 100 00			
S. S. Gleason . . . 300 00			
L. M. Hannum . . 200 00			
Henry P. Jennison . . 100 00			
Henry W. Wilson . . 100 00			
	1,000 00		
Stakes, John Quin , . . .	28 74		
Stenography :—			
Annie E. Conley . . $52 80			
Rogers & Jones . . 659 91			
	712 71		
Sundries	9 48		
Teaming, sundry persons . . .	99 27		
Traveling expenses, Geo. D. Webb .	75 00		
Use of wagons, Bacon & Tarbell .	11 00		
Water Works, repairs and supplies .	10 50		
Total expenses, Section C . . .		4,483 52	
River Parkway, Section D :—			
Advertising and printing :—			
Cambridge Chronicle Co. $1 53			
Press Newspaper Co. . 10 00			
	$11 53		
Base and grate, Concord Foundry Co.	7 50		
Board walks, seats, hitching-posts, etc. :—			
David F. Burns . . $414 00			
W. Fillmore & Co. . . 24 00			
	438 00		
Bricks, Parry Brothers & Co. . .	27 00		
Building bath houses, David F. Burns	1,586 00		
Amounts carried forward . .	$2,070 03	$38,154 26	$127,581 70

PARK DEPARTMENT, CONSTRUCTION — Continued.

Amounts brought forward . . .	$2,070 03	$38,154 26	$127,581 70
For carpentry and mill work :—			
W. Fillmore & Co. . . $21 12			
John Quin . . . 5 87			
	26 99		
Dredging, Eastern Dredging Co. .	2,538 00		
Drinking fountain :—			
J. L. Mott Iron Works . . .	26 88		
Filling, sundry persons . . .	5,069 64		
Grates and rings :—			
Barbour, Stockwell Company .	18 00		
Gravel, Eastern Dredging Company .	4,465 30		
Gutters and conductors at bath house :—			
M. J. Sheehan	162 88		
Hardware, tools and repairs, and supplies :—			
Jos. Breck & Sons . . $127 60			
Burditt & Bynner . . 40 48			
L. W. Ferdinand & Co. . 17 97			
J. D. Jewett & Co. . . 12 63			
Jas. Maitland . . . 7 95			
Sundry persons . . 5 25			
	211 88		
Iron ladders, G.W.& F. Smith Iron Co.	160 00		
Iron work, Miller & Shaw . .	14 65		
Lanterns, Wheeler Reflector Company	49 60		
Lawn seed, Thos. W. Emerson Company	30 00		
Lighting :—			
Cambridge Electric Light Company . . . $53 23			
Welsbach Street Light Company . . . 364 98			
	418 21		
Lumber, E. D. Sawyer & Co. . .	343 21		
Mason work, John B. Byrne . .	197 50		
Mirror, Phillips Brothers & Co. .	9 00		
Pay-rolls :—			
Engineers . . $1,502 11			
Laborers . . . 8,364 68			
	9,866 79		
Piles, John T. Scully . . .	73 92		
Pipe and cement :—			
D. W. Lewis . . . $226 84			
Windsor Cement Company 23 85			
	250 69		
Plans for temporary bath houses :—			
Geo. A. Moore	75 00		
Amounts carried forward . .	$26,078 17	$38,154 26	$127,581 70

PARK DEPARTMENT, CONSTRUCTION — Continued.

Amounts brought forward . . .	$26,078 17	$38,154 26	$127,581 70
For plants and shrubs :—			
Edw. Gillett . . . $78 20			
Shady Hill Nursery Co. . 7 40			
	85 60		
Poles, insulators, etc., for telephone line :—			
Boston Elevated Railway Company	94 71		
Removing marsh mud, Wm. B. Mullen	3,672 00		
Screens, W. Fillmore & Co. . .	27 99		
Scrolls for signs, Barbour, Stockwell Company	25 36		
Signs :—			
W. S. Brown, Jr. . . $15 00			
C. H. Buck & Co. . . 38 54			
	53 54		
Shower baths, Levi Hawkes . .	44 41		
Stakes, John Quin	115 94		
Stone :—			
T. A Callaghan . . $5 92			
H. Gore & Co. . . 36 13			
Sweatt & Gould . . 407 35			
	449 40		
Sundries	26 07		
Teaming, sundry persons . . .	2,653 80		
Water supply pipe	180 24		
Wiring, Inspection of Wires . .	11 80		
Total expenses, Section D . . .		33,519 03	
River Parkway, Section F :—			
Building boat landing :—			
Betts Bros & Co.	240 00		
Carpentry, W. Fillmore & Co. . .	226 12		
Lighting :—			
Welshbach Street Light Company	63 80		
Pay-rolls :—			
Engineers . . . $14 50			
Laborers . . . 3 00			
	17 50		
Seats, David F. Burns . . .	12 60		
Sticks, H. Pigeon & Sons . . .	125 00		
Sundries	6 78		
Water rates	6 00		
Water Works, repairs and supplies .	39 73		
Total expenses, Section F . . .		737 53	
River Parkway, Section G :—			
Bricks, M. W. Sands . . .	113 10		
Filling, sundry persons . . .	38 25		
Amounts carried forward . .	$151 35	$72,410 82	$127,581 70

PARK DEPARTMENT, CONSTRUCTION — Concluded.

Amounts brought forward . . .	$151 35	$72,410 82	$127,581 70
For lighting:—			
Welshbach Street Lighting Co. .	337 13		
Oil, D. J. O'Brien	55		
Pay-rolls:—.			
Engineers . . . $118 14			
Laborers . . . 380 65			
	498 79		
Stone work and brick sidewalk:—			
H. Gore & Co. . . $51 77			
Sweatt & Gould . . 111 62			
	163 39		
Total expenses, Section G . . .		1,151 21	
River Parkway, Section H:—			
Advertising and printing:—			
Boston Herald Co. . $7 00			
Press Newspaper Co. . 1 12			
	8 12		
Base and grate, Concord Foundry Co.	45 00		
Dredging, Eastern Dredging Co. .	72 75		
Filling:—			
Eastern Dredging Co. $9,781 50			
Sundry persons . 682 77			
	10,464 27		
Hardware, Burditt & Bynner . .	6 10		
Lumber, Sewer Department . .	53 31		
Pay-rolls:—			
Engineers . . . $246 09			
Laborers . . . 485 96			
	732 05		
Stakes, John Quin	15 42		
Sundries	15 22		
Teaming	14 25		
Total expenses, Section H . . .		11,426 49	
Total expenses			84,988 52
Balance unexpended . .			$42,593 18

SUMMARY — EXPENDED.

For East Cambridge Embankment .	$82 67
General Account	4,157 46
The Nursery	1,007 35
Office Expenses	1,201 51
Rindge Field	68 50
Washington Elm	27 00
River Parkway, Section A . . .	2,645 11
" " B . . .	24,481 14
" " C . . .	4,483 52
" " D . . .	33,519 03
" " F . . .	737 53
" " G . . .	1,151 21
" " H . . .	11,426 49
Total	$84,988 52

PARK DEPARTMENT.

MAINTENANCE.

Appropriation			$21,469 07
RECEIVED.			
For awning		$5 00	
Bath house receipts		1,469 07	
Removing tree		8 50	
Tree guards		1 00	
Trimming trees		8 33	
		$1,491 90	
EXPENDED.			
For Cambridge Field :—			
Hardware, tools and supplies :—			
Mark Alexander	$3 75		
Jos. Breck & Sons	46 08		
Burditt & Bynner	6 00		
		55 83	
Laborers as per pay-rolls		2,439 02	
Lighting :—			
Cambridge Electric Light Company		591 65	
Painting, H. H. Brandt		54 24	
Repairing fountains, Levi Hawkes		13 60	
Sundries		14 31	
Teaming, sundry persons		20 73	
Total expenses, Cambridge Field		$3,189 38	
For Cambridge Field Shelter :—			
Superintendent, Frederick Gustinger	$939 43		
Janitor, G. J. Weber	730 67		
Matron, Mrs. E. Reardon	521 90		
		$2,192 00	
Carpentry, W. Fillmore & Co.		6 97	
Clothing, Oak Hall Clothing Company		5 00	
Fuel, Dennis-Thompson-Pierce Co.		97 75	
Hardware, tools and supplies :—			
Burditt & Bynner	$5 97		
Wm. H. Claflin & Co.	26 00		
Sundry persons	4 75		
		36 72	
Laundry work, E. & R. Laundry		16 75	
Lighting :—			
Cambridge Electric Light Company		82 78	
Plumbing, Levi Hawkes		22 75	
Setting plate glass, J L. P. Ackers		12 00	
Telephone rent and tolls		51 67	
Total expenses, Cambridge Field Shelter		$2,524 39	
Amount carried forward			$21,469 07

PARK DEPARTMENT, MAINTENANCE — Continued.

Amount brought forward			$21,469 07
For Commons and Squares :—			
Hardware, tools and supples :—			
Jos. Breck & Sons		$6 40	
Lighting :—			
Cambridge Electric Light Company		270 00	
Painting, J. Johansen		46 00	
Pay-rolls :—			
Engineers	$2 63		
Laborers	1,951 08		
		1,953 71	
Plants, P. O'Brien & Son		85 00	
Repairing flags, Fannie E. Blaisdell		14 00	
Sundries		8 05	
Teaming, sundry persons		100 85	
Total expenses, Commons and Squares		$2,484 01	
For General Account :—			
Bicycle and repairs, J. L. Moseley		$74 95	
Clearing snow :—			
Boston Packing and Prov. Company		25 00	
Covering placards :—			
Boynton-Kendall Company		6 00	
Hardware, tools, etc. :—			
Jos. Breck & Sons	$59 53		
Burditt & Bynner	37 03		
Sundry persons	6 65		
		103 21	
Horse shoeing, Street Department		76 90	
Sundries		5 43	
Wagon repairs, Chas. Waugh & Co.		13 40	
Total expenses, General Account		$304 89	
For Public Grounds :—			
Filling, sundry persons		$135 15	
Lumber, E. D. Sawyer & Co.		19 26	
Pay rolls :—			
Engineers	$7 87		
Laborers	1,595 33		
		1,603 20	
Shrubs and trees :—			
Shady Hill Nursery Company		256 20	
Teaming, sundry persons		64 50	
Water Works supply		24 58	
Total expenses, Public Grounds		$2,102 89	
Amount carried forward			$21,469 07

PARK DEPARTMENT, MAINTENANCE — Continued.

Amount brought forward . . .			$21,469 07
For Shade Trees :—			
Filling, sundry persons . . .		$109 47	
Hardware, tools and supplies :—			
Jos Breck & Sons	$212 84		
Burditt & Bynner	9 11		
Jas. Maitland	29 41		
Daniel J. Sullivan	20 25		
		271 61	
Pay-rolls :—			
Engineers	$34 99		
Laborers	4,131 10		
		4,166 09	
Repairing gutter and roof :—			
W. Fillmore & Co.		14 55	
Sundries		6 79	
Teaming, sundry persons . . .		127 87	
Total expenses, Shade Trees . . .		$4,696 38	
For Rindge Field :—			
Lighting :—			
Cambridge Electric Light Company		$133 36	
Setting lamp posts :—			
Cambridge Gas Light Company .		8 34	
Total expenses, Rindge Field . .		$141 70	
For Bath House :—			
Bathing suits, A. Shuman & Co. .		$746 44	
Hardware, tools and supplies :—			
Burditt & Bynner	$8 79		
Sundry persons	1 20		
		9 99	
Laundry work, E. & R. Laundry .		436 43	
Salaries :—			
Bath house keepers :—			
Jos. James	$194 00		
Ernest H. Sparrow . . .	45 72		
Geo. Wood	82 00		
Arthur Wyman	21 43		
Assistant keeper, H. R. Keith .	28 00		
Life savers :—			
Ambrose Donahue . . .	42 15		
T. H. Heaton	120 02		
R. F. Keith	5 00		
F. M Nixon	55 72		
W W. Williams	71 43		
Temporary Clerk, N. F. Glidden, Jr.	92 86		
Matron, Mrs. Ada C. Bradbury .	115 71		
Amounts carried forward . .	$874 04	$1,192 86	$21,469 07

PARK DEPARTMENT, MAINTENANCE — Concluded.

Amounts brought forward	$874 04	$1,192 86	$21,469 07
For Assistant Matrons :—			
Edith I. Bradbury	10 00		
Mary A. Crowley	85 71		
Police officers :—			
Thos. F. Burke	2 10		
John P. Conroy	185 40		
Jos. J. Donahue	247 50		
Peter J. Murphy	94 50		
		1,499 25	
Stationery, printing, etc. :—			
Cambridge Chronicle Company		6 50	
Sundries		3 72	
Telephone rent and tolls		9 30	
Towels and toilet room supplies, etc. :—			
J. H. Corcoran & Co.	$93 60		
Jordan, Marsh & Co.	12 52		
		106 12	
Total expenses, Bath House		$2,817 75	
For River Parkway, Section G :—			
Hardware, Burditt & Bynner		$2 15	
Lighting, Welsbach Street Light Company		641 86	
Pay-roll, laborers		2,546 13	
Teaming, sundry persons		16 00	
Total expenses, River Parkway, Section G		$3,206 14	

SUMMARY : EXPENDED.

For Cambridge Field	$3,189 38	
Cambridge Field Shelter	2,524 39	
Commons and Squares	2,484 01	
General Account	304 89	
Public Grounds	2,102 89	
Shade Trees	4,696 38	
Rindge Field	141 70	
Bath House	2,817 75	
River Parkway, Section G	3,206 14	
Total		21,467 53
Balance unexpended		$1 54

PARK DEPARTMENT.

MAINTENANCE, INTEREST.

Appropriation		$42,400 00
RECEIVED.		
For accrued interest	$121 29	
EXPENDED.		
For funded loan	41,900 00	
Total		41,900 00
Balance unexpended		$500 00

PARK DEPARTMENT.

SINKING FUNDS.

Appropriation		$17,500 00
EXPENDED.		
For amount required by City ordinance for payment of park debt	$17,500 00	
Total		$17,500 00

PLUMBERS EXAMINERS DEPARTMENT.

Appropriation		$115 00
RECEIVED.		
For licenses	$35 50	
EXPENDED.		
For examinations, John Crawford	$115 00	
Total		$115 00

POLICE DEPARTMENT.

Appropriation			$123,800 00
RECEIVED.			
For ambulance removals		$165 00	
Cloth		475 53	
Fines :—			
J. R. Fairbairn, House of Correction	$1,093 00		
E. W. Law, Third District Court	4,176 25		
		5,269 25	
Horse		90 00	
Licenses		64 60	
		$6,064 38	
EXPENDED.			
For salaries of :—			
Chief, L. J. Cloyes	$1,999 92		
Deputy Chief, W. F. Batchelder	1,500 00		
Captains :—			
M. J. Folsom	1,399 92		
J. F. Murray	1,399 92		
F. B. Pullen	1,399 92		
Inspector, J. E. Murray	1,399 92		
Lieutenant, Henry C. Jones	1,200 85		
Sergeants	6,688 50		
Patrolmen	86,107 84		
Reserve Officers	8,792 98		
Drivers	5,430 00		
Matrons	730 00		
		118,049 77	
Atlas, George W. Stadly & Co.		25 00	
Bicycle repairs, J. L. Moseley		11 20	
Buttons, D. Evans & Co.		88 75	
Amounts carried forward		$118,174 72	$123,800 00

POLICE DEPARTMENT — Continued.

Amounts brought forward . . .		$118,174 72	$123,800 00
For car tickets :—			
Boston Elevated Railway Company .		250 00	
Cash expended for sundries :—			
L J. Cloyes	$15 49		
M. J. Folsom	6 15		
H C. Jones	5 47		
J. E. Murray	30 75		
J. F. Murray	16 80		
F. B. Pullen	12 72		
		87 38	
Chevrons, etc., Raphael Masstrangialo .		47 01	
Cleaning stations :—			
Julia Delaney	$12 60		
Mary McEachern	96 00		
Anna Wright	120 00		
		228 60	
Cloth for uniforms, Wendell, Fay & Co.		536 61	
Dictionary, Houghton, Mifflin & Co. .		9 25	
Directories, E. F. Hunt & Co. . .		15 00	
Disinfectants :—			
Puritan Germicide Company . .	$31 50		
Read Holliday & Sons . . .	5 00		
		36 50	
Dues, Gas Consumers' Association .		36 00	
Electrical work and supplies :—			
H. F. Berry	$14 22		
Pettingell-Andrews Company . .	24 43		
		38 65	
Expressage		5 55	
Fire arms and repairs and clubs :—			
Iver Johnson Sporting Goods Company	$29 05		
William Read & Sons . . .	11 45		
		40 50	
Fuel, Dennis-Thompson-Pierce Company		136 77	
Furniture, furnishings and repairs :—			
James Grant	$12 50		
D. W. Hyde & Co.	17 55		
Phillips Brothers & Co. . . .	9 35		
Shepard, Norwell & Co. . . .	24 35		
		63 75	
Hardware, tools and supplies :—			
Brock & Eaton	$54 40		
Burditt & Bynner	66 95		
Sundry persons	9 95		
J. H. Wyeth & Co.	6 18		
		137 48	
Amounts carried forward . .		$119,843 77	$123,800 00

POLICE DEPARTMENT — Continued.

Amounts brought forward		$119,843 77	$123,800 00
For harness and repairs and horse clothing :—			
Charles E. Berry	$5 00		
Owen Doherty	12 65		
James Forgie & Son	17 15		
William H. Roberts	6 80		
Sundry persons	5 90		
		47 50	
Hay, grain and straw :—			
J. S. Bradeen	$56 81		
J. Cushing & Co.	273 72		
A. G. Dore & Co.	69 42		
		399 95	
Heating buildings :—			
Public property department		890 00	
Horse, L. C. Bishop		150 00	
Horse board, Geo. F. Whiting & Co.		300 00	
Horse clipping		5 00	
Horse shoeing :—			
William Balmer	$63 00		
Street Department	45 20		
Sundry persons	2 00		
		110 20	
House repairs :—			
Carpentry, W. H. Norris		122 19	
Painting and glazing :—			
C. V. Hadley	$7 00		
George H. Hughes	232 01		
		239 01	
Plumbing, Henry T. Moulton		15 00	
Ice: —			
Boston Ice Company	$15 00		
Fresh Pond Ice Company	29 70		
		44 70	
Laundry work :—			
Warren H. Dow	$10 13		
Rose Flynn	12 45		
		22 58	
Lighting :—			
Cambridge Electric Light Company	$160 24		
Cambridge Gas Light Company	550 00		
		710 24	
Lunches		13 18	
Medicines, drugs and medical supplies :—			
L. H. Buzzell & Vail	$34 35		
Reycroft Pharmacy Company	9 90		
Sundry persons	7 70		
		51 95	
Photographs, Fred M. Ellis		42 00	
Amounts carried forward		$123,007 27	$123,800 00

POLICE DEPARTMENT — Concluded.

Amounts brought forward		$123,007 27	$123,800 00
For professional services :—			
George G. Averill, M. D.	$5 00		
Sundry persons	10 00		
		15 00	
Stationery and printing :—			
Caustic & Claflin	$126 25		
Cotton & Gould	20 10		
J. A. Cummings Printing Company	6 69		
Stationery Department	61 61		
		214 65	
Stenographic reporting, Mary E. Daly		5 00	
Sundries		36 06	
Telephone rent and tolls		276 55	
Wagon repairs, Charles Waugh & Co.		220 15	
Total			123,774 68
Balance unexpended			$25 32

PUBLIC LIBRARY.

Appropriation			$19,000 00
RECEIVED.			
For dog licenses, 1899		$4,589 46	
Fines and catalogues		588 13	
		$5,177 59	
EXPENDED.			
For salaries of :—			
Librarian, William L. R. Gifford	$2,499 97		
Assistants	5,263 27		
Janitor, T. M. Thomas	1,173 22		
Asstistant Janitor, Randolph C. Ray	15 71		
Assistant Janitor, William L. Johnson	7 15		
		8,959 32	
Atlas, George W. Stadly & Co.		25 00	
Baskets, Hopkinson & Holden		15 00	
Binding and binders :—			
E. W. Bettison	$6 12		
Boston Bookbinding Company	113 94		
David Farquhar	356 40		
J. H. H. McNamee	708 03		
		1,184 49	
Books, periodicals, etc. :—			
J. Q. Adams & Co.	$12 00		
Amee Brothers	578 81		
Balch Brothers	15 00		
Boston Book Company	6 21		
John W Cadby	16 00		
N. R. Campbell & Co.	8 00		
T. H. Castor & Co.	129 26		
Amounts carried forward	$765 28	$10,183 81	$19,000 00

PUBLIC LIBRARY — Continued.

Amounts brought forward	$765 28	$10,183 81	$19,000 00
For books, periodicals, etc:—			
Desmond Publishing Company	8 00		
Egypt Exploration Fund	16 25		
Lucy Hall Greenlaw	5 00		
Helman-Taylor Company	5 00		
Hurd & Everts Co.	17 00		
Ferdinand P. Kaiser	21 00		
James H. Lamb Company	14 00		
Charles E. Lauriat Company	37 00		
Little, Brown & Co.	3,672 25		
George E. Littlefield	208 03		
Massachusetts Historical Society	6 00		
Publishers' Weekly	12 50		
Sampson, Murdock & Co.	6 00		
Charles Scribner's Sons	36 00		
James H. Stark	7 50		
Hazard Stevens	5 00		
Sundry persons	6 25		
H. W. Wilson	14 00		
Charles L. Woodward	7 65		
		4,869 71	
Cheese cloth and towels		5 00	
Delivery of books and agencies:—			
M. I. Dow	$50 00		
E. C. Gove	50 00		
James W. Hunnewell	100 00		
Carrie E. Phillips	50 00		
The Prospect Union	60 00		
Joseph S. Ralph	233 14		
W. T. Ralph	122 57		
Michael Whalen	60 00		
P. A. Yerxa	35 00		
		760 71	
Directories:—			
W. A. Greenough & Co.	$9 00		
Sampson, Murdock & Co.	5 00		
		14 00	
Expressage, Savin's Express		38 13	
Fence and gate, A. Simpson		19 00	
Fuel:—			
Dennis-Thompson-Pierce Company	$304 68		
Metropolitan Coal Company	103 75		
		408 43	
Furniture and furnishings and repairs:—			
F. M. Eaton	$6 85		
Houghton & Dutton	8 64		
Library Bureau	165 20		
Sundry persons	6 90		
		187 59	
Hardware and supplies:—			
Brock & Eaton	$25 92		
Sundry persons	4 99		
		30 91	
Amounts carried forward		$16,517 29	$19,000 00

PUBLIC LIBRARY — Concluded.

Amounts brought forward . . .		$16,517 29	$19,000 00
For house repairs :—			
Carpentry, Steadman A. Rice . .		32 70	
Cement floor, William J. Heron . .		50 00	
Painting, J. L. P. Ackers . . .		62 08	
Plumbing :—			
Brock & Eaton	$26 80		
H. L. Rose	6 12		
		32 92	
Roof repairs, William Gordon . .		51 36	
Ice, Fresh Pond Ice Company . .		11 60	
Lighting :—			
Cambridge Electric Light Company	$588 34		
Cambridge Gas Light Company . .	315 10		
		903 44	
Lighting apparatus :—			
Brock & Eaton	$13 45		
Dwight T. Cortis	37 43		
Houghton & Dutton	17 28		
Jordan, Marsh & Co.	5 75		
		73 91	
Prints, Edwin R. Fairchild . .		5 68	
Stationery and printing :—			
A. L. A. Pub. Section . . .	$11 52		
Amee Brothers	18 07		
Boston Bank Note Company . .	25 20		
H. C. Dimond & Co.	6 00		
Oliver B. Graves	401 20		
Thomas Groom & Co. . . .	20 00		
Hooper, Lewis & Co.	38 10		
J. A. Cummings Printing Company .	17 01		
Library Bureau	15 40		
Stationery Department . . .	45 00		
Edward W. Wheeler	262 50		
		860 00	
Sundries		19 62	
Telephone rent and tolls . . .		48 83	
Typewriter and repairs and supplies :—			
Hammond Typewriter Company .	$105 80		
United Typewriter & Supplies Co. .	16 36		
		122 16	
Use of horse and carriage :—			
Ralph Smith & Co.		189 00	
Washing towels, T. M. Thomas . .		18 03	
Total			18,998 62
Balance unexpended . .			$1 38

PUBLIC LIBRARY.

EAST CAMBRIDGE BRANCH.

Appropriation			$1,270 00
	EXPENDED.		
For salaries of :—			
Superintendent, J. J. Henderson	$600 00		
Assistant, C. S. Marsh	156 50		
Substitute, Jeremiah J. Boyle	22 50		
		$779 00	
Binders and binding :—			
Boston Bookbinding Company		40 91	
Books, periodicals, etc. :—			
Amee Brothers	$101 95		
Little, Brown & Co.	96 35		
Times Publishing Company	1 00		
		199 30	
Furniture, furnishings and repairs :—			
V. O. Kalberg	$2 00		
Library Bureau	6 00		
John Quin	19 08		
		27 08	
Inkstand, Hooper, Lewis & Co.		1 75	
Lighting, Cambridge Gas Light Company		20 80	
Rent, Robinson Estate		200 00	
Total			1,268 84
Balance unexpended			$1 16

PUBLIC PROPERTY.

CITY BUILDINGS, CARE AND REPAIRS.

Appropriation			$19,500 00
	RECEIVED.		
For care and heating :—			
Electrical Department	$100 00		
Fire Department	375 00		
Police Department	890 00		
		1,365 00	
Error in bill		1 77	
Old furniture		25 00	
Old iron and junk		11 75	
Rent :—			
Armory, Commonwealth of Massachusetts	$800 00		
County of Middlesex	900 00		
Old Bridge School House	80 00		
Water Works Department	3,200 00		
		4,980 00	
Amounts carried forward		$6,383 52	$19,500 00

PUBLIC PROPERTY, CITY BUILDINGS. CARE AND REPAIRS — Continued.

Amounts brought forward . . .		$6,383 52	$19,500 00
For rent of land :—			
William Hanlon	$208 30		
Mrs. James S McMahon . . .	44 00		
		252 30	
		$6,635 82	
EXPENDED,			
For salaries of janitors		10,214 80	
Dues, Gas Consumers' Association .		48 00	
Expressage		5 56	
Fuel :—			
Coleman Brothers	$23 00		
Dennis-Thompson-Pierce Company .	1,209 67		
P. F. Gayton & Co.	22 44		
Metropolitan Coal Company . .	1,083 83		
J. A. Heaton	27 60		
Weighing, E. H. Harnden . . .	137 60		
		2,504 14	
nspection of boilers, Everett B. Dyer		10 00	
Lighting :—			
Cambridge Electric Light Company .	$1,291 04		
Cambridge Gas Light Company .	619 80		
		1,910 84	
Telephone rent		60 00	
Use of chairs, Pettingell & Pear . .		8 00	
Use of team, John R. Kenney . .		12 50	
Repairs and alterations :—			
Boxes japanned, Higgins & Co. .		9 00	
Carpentry :—			
O. B. French	$7 47		
F. B Furbish	50 42		
W. H. Norris	881 42		
John Quin	1 53		
		940 84	
Cleaning and laying carpets :—			
Worcester Brothers . . .		8 69	
Elevator pump, M. T. Davidson .		285 00	
Heating and ventilating apparatus repairs :—			
Brock & Eaton	$165 75		
M. T. Davidson	193 00		
Thomas Ellerby	21 00		
Greene & Co.	68 42		
W. Haley	96 87		
Albert H. Ricker	9 58		
Sundry persons	7 15		
		561 77	
Amounts carried forward . .		$16,579 14	$19,500 00

PUBLIC PROPERTY, CITY BUILDINGS, CARE AND REPAIRS — Continued.

Amounts brought forward		$16,579 14	$19,500 00
For lighting apparatus repairs :—			
Brock Brothers	$ 85		
Electrical Department	23 09		
Greene & Co.	10 40		
John J. Long	6 27		
		40 61	
Mason work :—			
John B. Byrne	$18 50		
James W. Lunt	55 75		
		74 25	
Painting and glazing :—			
J. L. P. Ackers	$150 06		
C. H. Buck & Co.	6 39		
W. J. Edwards	19 30		
George H. Hughes	13 00		
Charles A. Sawyer	15 58		
J. H. and J. P. Thayer & Co.	6 75		
		211 08	
Plumbing :—			
Ernest W. Clark	$1,034 28		
Greene & Co.	107 61		
W. Haley	13 40		
Levi Hawkes	33 73		
John J. Long	32 01		
Henry T. Moulton	28 47		
Sundry persons	7 55		
		1,257 05	
Repairing fence, Brock Brothers		13 45	
Roof repairs :—			
John J. Blevins	$60 13		
Howard F. Peak	19 26		
		79 39	
Sundries		3 82	
Supplies :—			
Clocks and repairs :—			
T. M. Kenney	$12 00		
Sundry persons	10 00		
		22 00	
Electrical supplies and apparatus :—			
F. Bryant & Co.	$2 24		
Clark & Mills	7 50		
Electric Gas Light Company	31 88		
General Electric Company	38 00		
Pettingell-Andrews Company	19 11		
Stuart-Howland Company	5 50		
		104 23	
Flag, L. W. Ferdinand & Co.		11 70	
Floor covers, C. H. Batchelder & Co.		40 00	
Amounts carried forward		$18,436 72	$19,500 00

PUBLIC PROPERTY, CITY BUILDINGS, CARE AND REPAIRS — Concluded.

Amounts brought forward . . .		$18,436 72	$19,500 00
For furniture and furnishings and repairs :—			
Art Metal Construction Company .	$13 50		
Derby Desk Company . . .	30 40		
James A. Furfey	6 83		
S. H. Harrington	15 00		
Sundry persons	5 50		
Superior Manufacturing Company .	19 80		
David Thomson	53 82		
Webster, Cook & Co. . . .	280 00		
		424 85	
Hardware, tools and supplies :—			
The Ashton Valve Company . .	$5 20		
Brock Brothers	10 89		
Burditt & Bynner	29 49		
Chandler & Farquhar . . .	122 05		
J. B. Higgins	5 25		
D. W. Hyde & Company . . .	19 33		
Charles Munroe	19 42		
F. L. Sawtell	6 25		
Sundry persons	10 34		
F. A. White	16 27		
		244 49	
Ice, Fresh Pond Ice Company . .		55 88	
Ladder, C. W. H. Moulton & Co .		5 00	
Matches, Diamond Match Company		8 00	
Oil and engine supplies :—			
Lubron Packing Company . .	$63 00		
E. Morris	22 50		
W. A. Morrison	96 68		
The W. W. Reid Mfg. Company .	3 75		
Standard Oil Company . . .	10 55		
W. A. Wood & Co.	6 25		
		202 73	
Polish, Edward McDermott & Co. .		6 25	
Soap, E. S. Gilmore		3 47	
Stationery and printing :—			
Cotton & Gould	$6 37		
J. A. Cummings Printing Company	13 80		
		20 17	
Total			$19,407 56
Balance unexpended . .			$92 44

SUMMARY: EXPENDED.

Salaries of janitors	$10,214 80
Fuel	2,504 14
Lights	1,910 84
Repairs and alterations	3,629 01
Supplies	1,148 77
Total	$19,407 56

PUBLIC PROPERTY.

FURNISHING LATIN SCHOOLHOUSE.

Appropriation		$1,840 04
EXPENDED.		
For bicycle runs, etc. :—		
John S. Jacobs & Son	$184 15	
Carpentry, W. H. Norris	74 65	
Electrical work, Clark & Mills	16 28	
Heating and ventilating :—		
Lynch & Woodward	1,166 00	
Partitions, John S. Jacobs & Son	294 00	
Total		1,735 08
Balance unexpended		$104 96

PUBLIC PROPERTY.

INCIDENTALS.

Appropriation			$5,450 00
EXPENDED.			
For salaries of :—			
Superintendent of Buildings :—			
William H. Gray	$2,000 00		
Inspectors :—			
J. W. Emery	1,130 15		
C. H. M. Hunnewell	1,000 00		
Clerk, Lillian W. Hyde	313 00		
		$4,443 15	
Appraising damage to Moore Block :—			
R. and C. G. Wentworth		$30 00	
Atlas, George W. Stadly & Co.		35 00	
Bicycle repairs :—			
J. L. Moseley	$6 45		
Sundry persons	5 00		
		11 45	
Car tickets :—			
Boston Elevated Railway Company		125 00	
Care and repair of tower clocks :—			
Charles H. Chandler	$26 00		
A. K Jones	52 00		
J. B. Mace	26 00		
John W. Moore	6 25		
George M. Stephens	7 25		
C. R. Weddleton	24 00		
		141 50	
Amounts carried forward		$4,786 10	$5,450 00

PUBLIC PROPERTY, INCIDENTALS — Concluded.

Amounts brought forward . . .		$4,786 10	$5,450 00
For horse board :—			
Charles W Dailey	$22 00		
George F. Whiting & Co. . . .	300 00		
		322 00	
Horse shoeing :—			
William Balmer	$16 25		
Street Department	5 00		
		21 25	
Photographs :—			
D W Butterfield	$15 00		
Joseph L. Gomes	26 65		
		41 65	
Services, Charles E Hancock . .		25 00	
Stamps, Pneumatic Hand Stamp Co. .		15 29	
Stationery and printing :—			
Cambridge Chronicle Company . .	$27 74		
Caustic & Claflin	7 50		
Cotton & Gould	27 57		
J. A Cummings Printing Company .	51 97		
Stationery Department . . .	29 40		
		144 18	
Sundries		10 68	
Telephone rent and tolls . . .		80 55	
Total			5,446 70
Balance unexpended . . .			$3 30

PUBLIC PROPERTY.

LAND FOR SCHOOLHOUSE, WARD ONE.

Appropriation			$13,000 00
EXPENDED.			
For land, Frederick H Rindge . .		$12,800 00	
Total			12,800 00
Balance unexpended . . .			$200 00

PUBLIC PROPERTY.

NEW SCHOOLHOUSE, WARD ONE.

Appropriation			$80,000 00
EXPENDED.			
For labor, as per pay-roll . . .		$8 00	
Advertising and printing :—			
Cambridge Chronicle ompany .	$5 25		
Press Newspaper Company . .	2 22		
		7 47	
Total			15 47
Balance unexpended . .			$79,984 53

PUBLIC PROPERTY.

REBUILDING HARVARD SCHOOL.

Appropriation			$23,234 52
EXPENDED.			
For advertising and printing:—			
Cambridge Chronicle Company		$0 25	
Carpentry, W. A. Briggs & Co.		164 50	
Cleaning, Benjamin Overton		40 00	
Clocks:—			
Metropolitan Manufacturing Co.		112 65	
Contract for Building, Briggs Brothers		20,550 35	
Electrical work:—			
Clark & Mills	$167 25		
Pettingell-Andrews Company	7 63		
		174 88	
Fence, A. Simpson		115 00	
Furniture:—			
W. A. Briggs	$44 30		
Chandler Adjustable Chair & Desk Works	25 00		
Derby Desk Company	160 22		
William Leavens & Co.	50 16		
Webster, Cook & Co.	288 00		
		567 68	
Hardware, Burditt & Bynner		189 30	
Iron beams, brick floors, etc.:—			
William Crane		392 00	
Ladder, C. W. H. Moulton & Co.		7 65	
Lettering and numbering, Wm. C. Carroll		90 75	
Mason work, John B. Byrne		48 82	
Mats, Keystone Wire Matting Company		47 25	
Painting, William C. Carroll		22 25	
Plans, etc., George Fogerty		403 17	
Plastering, William J. Heron & Co.		54 50	
Plumbing, Thomas F. Martin		75 48	
Shades, Houghton & Dutton		148 50	
Total			23,204 98
Balance unexpended			$29 54

PUBLIC PROPERTY.

RIFLE RANGE.

Appropriation		$200 00
EXPENDED.		
For carpentry, W. H. Norris	$95 15	
Electrical work, F. Bryant & Co.	15 40	
Furniture, Derby Desk Company	43 50	
Total		154 05
Balance unexpended		$45 95

PUBLIC PROPERTY.

SCHOOLHOUSES, CARE AND REPAIRS.

Appropriation			$75,000 00
RECEIVED.			
Error on pay-roll		$5 00	
EXPENDED.			
For salaries of janitors		$32,981 84	
Expressage and moving furniture:—			
P. Biggin	$136 75		
Donovan's Express	23 62		
William Ford	20 00		
Hazlett's Express	7 30		
Sundry persons	5 75		
		193 42	
Fuel:—			
Coleman Brothers	$1,068 60		
Dennis-Thompson-Pierce Company	5,167 90		
P. F. Gayton & Co.	222 64		
Metropolitan Coal Company	10,548 62		
Richardson & Bacon	17 75		
		17,025 51	
Inspecting boilers, Everett B. Dyer		54 00	
Laundry work, Mrs. J. J. Corcoran		14 79	
Lettering, etc., C. H. Buck		35 10	
Lighting:—			
Cambridge Electric Light Company	$931 01		
Cambridge Gas Light Company	676 40		
Repairs	22 57		
		1,629 98	
Plans and specifications, Otis School:—			
Aaron H. Gould		427 20	
Telephone rent and tolls		9 00	
Repairs and alterations:—			
Carpentry:—			
Alfred Allcock	$2 55		
M. C. Beedle	278 01		
Briggs Brothers	578 50		
Bunker & Allcock	11 71		
Charles H. Callahan	58 25		
Colin Chisholm	158 82		
O. B. French	300 86		
W. H. Norris	2,313 53		
John Quin	339 45		
Frank Stowell	114 00		
		4,155 68	
Covering skylights, Morss & Whyte		108 00	
Extra work on Cambridge Latin School:—			
John S. Jacobs & Son		435 58	
Fence, A. Simpson, agent		47 96	
Amounts carried forward		$57,118 06	$75,000 00

PUBLIC PROPERTY, SCHOOLHOUSES, CARE AND REPAIRS — Continued.

Amounts brought forward		$57,118 06	$75,000 00
For grading at schoolhouse grounds:—			
Michael Halpin	4 00		
Jeremiah Sullivan	68 37		
		72 37	
Heating and ventilating repairs:—			
Ashton Valve Company	$12 00		
Brock Brothers	141 46		
Brock & Eaton	146 67		
William Campbell & Co.	8 90		
William Fitzgerald	105 06		
Greene & Co.	139 56		
W. Haley	217 00		
Higgins & Co.	721 68		
Knowles Steam Pump Works	37 04		
John J. Long	78 80		
Lynch & Woodward	51 70		
James McArdle	177 45		
Moynahan & Co.	652 56		
Richardson & Boynton	225 00		
Albert H. Ricker	13 55		
Roberts Iron Works Company	52 66		
B. F. Sturtevant	19 28		
Charles Waugh & Co.	4 30		
D J. Wild & Co.	94 00		
		2,898 67	
Labor and fittings:—			
Water Works Department		14 65	
Lamp and electrical repairs and supplies:—			
H. F. Berry	$1 10		
Blodgett Brothers & Co.	36 25		
F. Bryant & Co.	159 21		
Clark & Mills	184 30		
Electric Gas Light Company	8 74		
Electrical Department, Wires	16 49		
General Electric Company	51 94		
Greene & Co.	6 60		
John J. Long	35 70		
Knott & Co	547 79		
William A. Knowlton, Assignee	77 70		
C. H. McKenney & Co.	298 80		
Pettingell-Andrews Company	22 06		
H. L. Rose	8 00		
		1,454 68	
Laying trenches, Thomas L. Dodge		154 00	
Laying walk, G. W. Wiggin & Co.		17 60	
Mason work:—			
John B. Byrne	$228 35		
J. Delaney	18 00		
Henry McGahey	220 93		
		467 28	
Amounts carried forward		$62,197 31	$75,000 00

PUBLIC PROPERTY, SCHOOLHOUSES, CARE AND REPAIRS — Continued.

Amounts brought forward		$62,197 31	$75,000 00
For painting and glazing :—			
J. L. P. Ackers	$409 50		
Boston Plate Glass Company	19 94		
W. J. Edwards	22 21		
John Fallon	34 75		
M. A Feeley	49 75		
Henry Haley	40 55		
Patrick J. Kelley	70 00		
Charles A. Sawyer	174 50		
Sundry persons	23 71		
		844 91	
Plaster work, William J. Heron		949 32	
Plumbing :—			
A. Baumeister	$23 87		
Brock Brothers	10 83		
E. W. Clark	202 01		
Charles A. Fallon	188 96		
Greene & Co.	191 50		
W. Haley,	151 75		
Levi Hawkes	1,518 20		
Higgins & Co.	7 99		
D J. Keefe & Co.	226 16		
John J. Long	38 33		
J. T Phelan	69 89		
James A Reid	76 18		
A. H. Ricker	8 97		
H. L. Rose	67 44		
John H Stevens & Co.	59 15		
D. J. Wild & Co.	4 82		
		2,846 05	
Roof repairs :—			
John J Blevins	$917 92		
Brock & Eaton	128 59		
John S. Jacobs & Son	135 00		
Howard F. Peak	68 42		
		1,249 93	
Setting step and building cistern :—			
Austin Ford & Son		30 50	
Sundries		9 50	
Supplies :—			
Bricks and sand, Street Department		3 40	
Clocks and repairs :—			
A. J. Applegate Company	$29 50		
Kenney & Floyd	19 00		
T. M. Kenney	43 00		
Metropolitan Manufacturing Company	5 45		
James A. Rice	8 00		
Sundry persons	9 75		
		114 70	
Disinfectants :—			
Burditt & Bynner	$24 00		
Cambridge Chronicle Company	24 00		
C. W. Lerned & Co.	25 00		
		73 00	
Amounts carried forward		$68,318 62	$75,000 00

PUBLIC PROPERTY, SCHOOLHOUSES, CARE AND REPAIRS — Continued.

Amounts brought forward		$68,318 62	$75,000 00
For dusters, brooms, brushes, etc. :—			
D. W. Fisher & Co.	$8 10		
E. H. Patten	7 50		
F. Pelkey	12 00		
G. H. Worcester & Co.	263 00		
		290 60	
Extinguishers, Knight & Thomas		162 00	
Furniture and furnishings and repairs :—			
American Blackboard Company	$347 36		
Brock Brothers	8 82		
Burditt & Bynner	77 54		
Chandler Adjustable Chair and Desk Works	3,440 00		
Derby Desk Company	56 40		
F. M. Eaton	10 35		
J. L. Hammett Company	132 25		
Handel and Haydn Society	32 00		
Heywood Brothers and Wakefield Co.	78 57		
D W. Hyde & Co.	8 10		
William Leavens & Co.	15 18		
C. B. Moller	19 50		
Florence Rice	10 00		
George W. Smith	44 20		
Sundry persons	8 45		
David Thompson	49 75		
Webster, Cook & Co.	165 75		
Worcester Brothers	52 60		
		4,556 82	
Hardware, tools and supplies :—			
Bacon & Co.	$147 90		
Joseph Breck & Sons	8 50		
Brock Brothers	78 26		
Brock & Eaton	22 42		
Burditt & Bynner	595 03		
William H. Claflin & Co.	38 50		
A. C. Day	11 00		
Dover Stamping Company	6 00		
Lubron Packing Company	10 70		
Phipps Brothers	26 25		
The Roebling Construction Co.	47 80		
F. L. Sawtell	6 25		
E. D. Silliman	9 82		
L. A Stingel	63 03		
Sundry persons	27 00		
F. A. White	98 29		
		1,196 75	
Ladders :—			
C. W. H. Moulton & Co.	$13 07		
F. D. Weld	6 30		
		19 37	
Oil :—			
Leonard & Ellis	$12 20		
Lubron Packing Company	61 00		
		73 20	
Roof guards, John S. Jacobs & Son		258 00	
Sawdust, George G. Page Box Company		46 75	
Shavings, C. W. H. Moulton & Co.		2 63	
Amounts carried forward		$74,924 74	$75,000 00

PUBLIC PROPERTY, SCHOOLHOUSES, CARE AND REPAIRS — Concluded.

Amounts brought forward		$74,924 74	$75,000 00
For soap and washing powder :—			
D. H. Dean	$1 00		
E. S. Gilmore	5 76		
Savena Manufacturing Company	55 04		
		61 80	
Sponge, E. H. Patten		10 00	
Total			$74,996 54
Balance unexpended			$3 46

SUMMARY: EXPENDED.

For salaries of janitors	$32,981 84	
Fuel	17,025 51	
Lighting	1,629 98	
Telephone rent	9 00	
Repairs and alterations	16,481 19	
Supplies	6,869 02	
		$74,996 54

PUBLIC PROPERTY.

WELLINGTON SCHOOL.

Appropriation			$35,500 00

EXPENDED.

For alterations, John S. Jacobs & Son		$7,121 25	
Bricks, M. W. Sands		9 10	
Fences, W. F. Fillmore & Co.		92 43	
Furniture :—			
Chandler Adjustable Chair & Desk Co.	$97 50		
J. L. Hammett Company	3 67		
		101 17	
Heating apparatus :—			
Moynahan & Co.	$287 00		
Lynch & Woodward	421 50		
		708 50	
Labor, as per pay-rolls		281 26	
Lighting apparatus, C. H. McKenney		298 75	
Loam, Jeremiah Sullivan		352 65	
Painting, whitening, etc. :—			
M. A. Feeley	$245 00		
C. E. McMenimen	294 50		
		539 50	
Plans, specifications, etc., Geo. Fogarty		468 75	
Plumbing, Moynahan & Co.		18 90	
Plaster work, Wm. J. Heron & Co.		160 58	
Repairing furniture, James Grant		17 67	
Sundries		7 80	
Teaming		9 75	
Total, Wellington School		$10,188 06	
Amount carried forward			$35,500 00

PUBLIC PROPERTY.

GORE SCHOOL.

Amount brought forward . . .			$35,500 00
	EXPENDED.		
For advertising and printing :—			
Press Newspaper Company . .		$2 66	
Alterations, H L. Rose		5,368 68	
Ash cans, Burditt & Bynner . . .		33 00	
Blackboard, American Blackboard Co. .		147 12	
Carpentry, John T. Mahaffy . . .		587 71	
Cleaning, O. A. Nellson		20 35	
Express, Donovan's Express . . .		7 23	
Furniture and repairs :—			
Chandler Adjustable Chair & Desk Works	$313 40		
Jas. Grant	288 00		
		601 40	
Hose, etc., L. A. Stingel . . .		8 60	
Mason work, John B. Byrne . . .		395 65	
Painting, J. L. P. Ackers . . .		487 00	
Plans, specification, etc. :—			
Harry Dustin Joll		231 95	
Plumbing :—			
Locke, Stevens & Co.	$300 00		
John J. Long	21 43		
		321 43	
Repairing roofs, etc., John J. Blevins .		97 10	
Smoke stack and heating apparatus :—			
Lynch & Woodward	$214 00		
Roberts Iron Works Company . .	107 63		
H. L. Rose	150 43		
		472 06	
Varnishing, staining, glazing, etc. :—			
J. L. P. Ackers		73 58	
Total, Gore School		$8.855 52	

PUBLIC PROPERTY.

FELTON SCHOOL.

	EXPENDED.		
For alterations, etc., H. L. Rose . .		$5,924 05	
Artificial stone side-walk, Simpson Brothers		295 00	
Blackboards, American Blackboard Co.		82 56	
Carpentry, S. J. Kelley		458 87	
Cornice work, Higgins & Co. . .		84 00	
Clocks, Kenney & Floyd . . .		29 25	
Edgestones and gravel :—			
S. & R. J Lombard	$99 63		
Thos. O'Hara	64 87		
		164 50	
Amounts carried forward . .		$7,038 23	$35,500 00

PUBLIC PROPERTY, FELTON SCHOOL — Concluded.

Amounts brought forward		$7,038 23	$35,500 00
For furniture :—			
Chandler Adjustable Chair & Desk Works	$411 00		
J. L. Hammett Company	8 50		
Keystone Steel Matting Company	26 55		
Geo. S. Perry & Co.	37 25		
Webster, Cook & Co.	152 00		
		635 30	
Electrical work, Wm. Humans		53 00	
Expressage, Donovan's Express		13 36	
Hardware and supplies :—			
Burditt & Bynner	$166 32		
F. A. White	17 83		
A. G. Willis	4 80		
		188 95	
Heating apparatus :—			
Higgins & Co.	$120 45		
Richmond Stove Company	218 75		
		339 20	
Labor, as per pay-rolls		492 85	
Ladders, C. W. H. Moulton & Co.		13 15	
Loam, Jeremiah Sullivan		270 43	
Mason work, John B. Byrne		222 35	
Partitions, Walter G. Corbett		290 00	
Plans, specifications, etc., Geo. Fogarty		210 65	
Plaster work, Wm. J. Heron & Co.		102 00	
Repairing furniture :—			
James Grant	$299 82		
Napoleon Jaeger	136 50		
		436 32	
Roof repairs, H. F. Peak		11 03	
Service pipe, etc., Cambridge Gas Lt. Co.		9 95	
Sundries		8 47	
Teaming, sundry persons		125 13	
Varnishing, painting, etc., M. A. Feeley		593 00	
Total, Felton School		$11,053 37	
Total, Wellington, Gore and Felton Schools			$30,096 95
Balance unexpended			$5,403 05

SCHOOL DEPARTMENT.

CARE OF TRUANTS.

Appropriation			$1,850 00
EXPENDED.			
For Board of Truants :—			
Middlesex County Truant School		$1,677 85	
Cash paid for railroad fares :—			
S. B. Hubbard		26 35	
Total			1,704 20
Balance unexpended			$145 80

SCHOOL DEPARTMENT.

FLAGS.

Appropriation		$250 00
EXPENDED.		
For flags, Boston Regalia Company	$125 50	
Halyards, Irving W. Wheeler & Co.	6 00	
Painting poles, J. Johansen	14 00	
Repairing flags, Frank Greenidge & Co.	56 50	
Total		202 00
Balance unexpended		$48 00

SCHOOL DEPARTMENT.

INCIDENTALS.

Appropriation			$1,600 00
EXPENDED.			
For salaries :—			
S. B. Hubbard, Secretary	$400 00		
Frank T. Evans, Messenger	25 00		
		$425 00	
Advertising		14 33	
Binding, J. H. H. McNamee		15 00	
Car tickets, Boston Elevated Railroad Co.		250 00	
Illustrating lecture, W. H. Drew		25 00	
Lantern slides, A. D. Handy		12 15	
Music :—			
Isabel S. Burton	$1 20		
Oliver Ditson Co.	20 93		
		22 13	
Postage, F. M. Small		42 00	
Services of orchestra		44 00	
Services of A. K. Jones		3 00	
Stationery, printing and typewriter supplies :—			
Cambridge Chronicle Company	$93 35		
Caustic & Claflin	225 79		
J. A. Cummings Printing Company	205 51		
Thos. Groom & Co.	8 50		
G. B. Lenfest	14 50		
Office, Bank and Library Company	6 95		
Louis F. Weston	121 50		
		676 10	
Sanders Theatre, Harvard University		10 00	
Telephone rent		26 00	
Use of lantern, etc., John H. Thurston		10 00	
Use of piano, Briggs & Briggs		5 00	
Vaccine virus, N. E. Vaccine Company		19 25	
Total			1,598 96
Balance unexpended			$1 04

SCHOOL DEPARTMENT.

SALARIES.

Appropriation			$333,200 00
RECEIVED.			
For education of children at Industrial School, Commonwealth of Mass.		$480 50	
Error in pay-roll		11 00	
Hopkins Charity Fund		710 56	
Tuition of non-residents		3,254 92	
Tuition at Manual Training School, Harvard University		1,242 50	
		$5,699 48	
EXPENDED			
For salaries of :—			
Superintendent, Francis Cogswell		$3,500 00	
Superintendent's clerk, Althea B. Frost		750 00	
Agent, S. B. Hubbard		2,100 00	
Clerk, Myrta E. Smith		600 00	
Special instructors :—			
Botany, Sarah E. Brassill	$1,000 00		
Drawing, Peter Roos	1,800 00		
Drawing, Lucia N. Jennison	800 00		
Gymnastics, Sara E. Boudren	865 00		
Music, Frederick E Chapman	2,000 00		
Sewing, Agnes Gordon	600 00		
" Alice H. Nay	600 00		
" Nancy T. Dawe	540 00		
Primary, Mary A. Lewis	1,200 00		
		9,405 00	
Salaries of teachers in :—			
Latin School	$21,819 00		
English High School	25,250 50		
Grammar Schools	124,488 39		
Primary Schools	85,723 90		
Wellington Training School	14,153 48		
Kindergarten Schools	15,267 84		
Substitutes	1,086 00		
Rindge Manual Training School	17,825 73		
		305,614 84	
Teachers in evening schools :—			
Drawing	$1,430 00		
High	1,874 00		
Allston	1,362 50		
Putnam	797 50		
Shepard	556 50		
Webster	658 50		
		6,679 00	
Salaries of truant officers		3,930 00	
Porter, John H. Lemon		600 00	
Rebate on tuition, Fred L. Wolf		12 50	
Total			333,191 34
Balance unexpended			$8 66

SCHOOL DEPARTMENT.

TEXT BOOKS AND SUPPLIES.

Appropriation			$19,000 00
	RECEIVED.		
For sale of, and damage to, books		$403 42	
	EXPENDED.		
For apparatus and supplies:—			
Adams, Cushing & Foster	$1,430 61		
Barbour-Stockwell Company	94 37		
Selma E. Berthold	11 90		
Blodgett. Ordway & Webber	21 41		
Boston School Supply Company	114 00		
Brown, Durrell & Co.	85 64		
Brown & Wales	16 81		
Burditt & Williams	152 18		
Chandler & Barber	148 75		
Cook-Vivian Company	855 34		
Davidson Rubber Company	67 09		
Dexter Brothers	42 34		
The Diamond Paste Company	59 50		
Dodge, Haley & Co.	215 42		
Eimer & Amend	943 67		
Frost & Adams Company	242 49		
Ginn & Co.	5 60		
Thomas Groom & Co.	16 50		
J. L. Hammett Company	656 20		
John A. Hubbard	17 30		
D. W. Hyde & Co.	15 31		
Jordan, Marsh & Co.	17 95		
G. F. King & Co.	105 09		
L. E. Knott Apparatus Company	586 70		
Frank P. Merrill	63 09		
Theodore Metcalf Company	150 54		
Alexander Millan	8 44		
Prang Educational Company	71 70		
Pulsifer, Cook & Co.	1,826 38		
Florence Rice	8 59		
A. M. Robbins	6 52		
Sundry persons	21 16		
Wadsworth, Howland & Co.	250 48		
		8,329 07	
Binding, J. H. H. McNamee		426 85	
Blankets and pillows, C. F. Hovey & Co.		13 88	
Books:—			
Allyn & Bacon	$104 39		
American Book Company	726 33		
Edward E. Babb & Co.	129 04		
Boston School Supply Company	583 64		
Henry G. Carey	35 00		
T. H. Castor & Co.	282 27		
DeWolfe, Fiske & Co.	88 63		
Ginn & Co.	2,385 95		
William H. Guild & Co.	15 65		
Amounts carried forward	$4,350 90	$8,769 80	$19,000 00

SCHOOL DEPARTMENT, TEXT BOOKS AND SUPPLIES — Concluded.

Amounts brought forward . . .	$4,350 90	$8,769 80	$19,000 00
For books :—			
J. L. Hammett Company . . .	82 85		
Harper & Brothers	9 86		
Harvard Co-operative Society . .	7 00		
D. C. Heath & Co.	205 45		
Houghton, Mifflin & Co. . . .	439 85		
Lee & Shepard	20 84		
Longmans, Green & Co. . . .	84 00		
Perry Mason & Co.	14 00		
New England Publishing Company .	9 75		
Prang Educational Company . .	6 00		
Thomas R. Shewell & Co. . . .	194 40		
Silver, Burdett & Co. . . .	60 66		
Thompson, Brown & Co. . . .	1,469 92		
University Publishing Company .	124 10		
		7,079 58	
Diplomas, Boston Bank Note Company		186 73	
Expressage :—			
Bancroft's Express	$12 35		
H. W. Bettinson & Co. . . .	13 25		
P. Biggin	160 44		
W. A. Nichols	56 17		
Savage & Son	1 05		
Sawin's Express	32 18		
		275 44	
Fuel, Coleman Brothers . . .		79 08	
Ice, Fresh Pond Ice Company . .		5 15	
Lumber :—			
George W. Gale Lumber Company .	$601 83		
John M. Woods & Co. . . .	2 63		
		604 46	
Pianos :—			
Chickering & Sons	$1,300 00		
Mason & Hamlin Company . .	275 00		
		1,575 00	
Plastic casts, P. P. Caproni & Bro. .		5 95	
Postage, F. M. Small		157 20	
Printing :—			
The Barta Press	$20 00		
Cambridge Chronicle Company .	16 25		
G. B. Lenfest	13 50		
Louis F. Weston	103 50		
		153 25	
Sharpening tools, C. S. Dewis . .		11 50	
Sundries		18 76	
Telephone rent and tolls . . .		52 50	
Tuning pianos, Charles H. Fosgate .		24 50	
Total			18,998 90
Balance unexpended . .			$1 10

SCHOOL DEPARTMENT.

VACATION SCHOOLS.

Appropriation			$2,000 00
EXPENDED.			
For salaries as per pay-roll		$1,626 00	
Hardware :—			
Burditt & Williams	$26 85		
Chandler & Barber	12 74		
		39 59	
Lumber :—			
George W. Gale Lumber Company		229 58	
Paints, etc. :—			
Wadsworth, Howland & Co.		48 67	
Printing :—			
Louis F. Weston		10 50	
Rent of phonograph, etc :—			
William E Furniss		5 00	
Stationery, Adams, Cushing & Foster		9 63	
Sundries		8 08	
Supplies, F. P. Merrill		19 06	
Total			1,996 11
Balance unexpended			$3 89

SEALER OF WEIGHTS AND MEASURES.

Appropriation,			$1,700 00
RECEIVED.			
For fees for sealing		$498 00	
EXPENDED.			
For salary of Sealer, A. F. Roberts		1,083 37	
Acid, F. A. Dunbar		6 00	
Adjusting scale, The Fairbanks Company		30 33	
Carriage repairs, Chapman Carriage Company	$3 50		
Street Department	19 76		
		23 26	
Car tickets, Boston Elevated Railway Co.		10 00	
Directory, E. F. Hunt & Co.		3 00	
Harness and repairs		5 45	
Horse board, Street Department		198 00	
Horse shoeing, Street Department		31 50	
Amounts carried forward		$1,390 91	$1,700 00

SEALER OF WEIGHTS AND MEASURES — Concluded.

Amounts brought forward		$1,390 91	$1,700 00
For Lumber :—			
E. D. Sawyer & Co.	$9 90		
Sundry persons	4 88		
		14 78	
Sealing :—			
John C. Connors	$81 25		
Edward S. Dowling	22 50		
Edwin H. Harnden	118 75		
Frank B. Lake	21 25		
Frank B. Williams	20 00		
		263 75	
Stamps and brands, James Ryan		6 75	
Stationery and printing :—			
Stationery Department	$11 85		
Louis F. Weston	1 50		
		13 35	
Sundries		5 43	
Total			1,694 97
Balance unexpended			$5 03

SEWER DEPARTMENT.

IMPROVED SEWERAGE.

Appropriation			$99,010 76
EXPENDED.			
For labor, as per pay-rolls		$38,859 70	
Bricks :—			
Perry Brothers & Co.	$3,023 49		
M. W. Sands	1,890 35		
		4,913 84	
Canvas covers, Nolan Brothers		95 10	
Clock repairs, Kenney & Floyd		10 00	
Concrete stone :—			
William B. Mullen	854 28		
Thomas O'Hara	395 48		
J. M. Riley	68 32		
		1,318 08	
Concrete crossings repaired :—			
Simpson Brothers		42 50	
Connecting drains, L. B. Grover & Son		15 60	
Fuel, Coleman Brothers		406 52	
Grate and screen, Morss & Whyte		14 25	
Amounts carried forward		$45,675 59	$99,010 76

SEWER DEPARTMENT, IMPROVED SEWERAGE — Continued.

Amounts brought forward . . .		$45,675 59	$99,010 76
For hardware, tools and repairs, and supplies: —			
Burditt & Bynner	$671 78		
William Campbell & Co. . . .	69 30		
Charles H. Goldsmith	9 20		
James Maitland	8 45		
Fred V. Smith	76 95		
Daniel J. Sullivan	35 80		
Sundry persons	3 63		
W. J. Wilson	13 50		
		888 61	
Heating apparatus repairs: —			
Greene & Co.		40 95	
Iron work: —			
Mechanics' Iron Foundry . . .	$6 57		
Miller & Shaw	390 57		
		397 14	
Labor and materials: —			
Street Department	$43 51		
Water Works Department . . .	80 11		
		123 62	
Lumber: —			
George W. Gale Lumber Company .	$689 29		
William B. Mullen	84 78		
E. D. Sawyer & Co.	28 32		
William H. Wood & Co. . . .	4,354 35		
		5,156 74	
Mill work: —			
J. H. Keenan Company . . .	$2,000 07		
D. C. Scranton	19 05		
		2,019 12	
Oat meal, Charles James . . .		9 94	
Oil, Standard Oil Company . . .		18 00	
Piles, John T. Scully		38 10	
Pipe and cement: —			
William Campbell & Co. . . .	65 00		
Fiske & Co.	7,276 15		
D. W. Lewis	3,011 43		
Portland Stone Ware Company .	1,110 83		
Waldo Brothers	337 50		
		11,800 91	
Rental of machine: —			
Carson-French Machine Company .		463 00	
Rings and covers: —			
Barbour-Stockwell Company . .		647 90	
Sand and gravel: —			
Fred McLaughlin	26 46		
William B. Mullen	1,835 92		
Thomas O'Hara	576 13		
J. M. Riley	28 89		
B. F. St. George	19 04		
		2,486 44	
Amounts carried forward . .		$69,766 06	$99,010 76

SEWER DEPARTMENT, IMPROVED SEWERAGE — Concluded.

Amounts brought forward		$69,766 06	$99,010 76
For stone :—			
Austin Ford & Son	$29 40		
Massachusetts Broken Stone Company	586 77		
		616 17	
Stone work, Thomas A. Rowe		205 00	
Sundries		5 50	
Teaming :—			
P. Biggin	$44 75		
T. A. Callaghan	168 75		
E. Fredrekson	78 75		
Charles Linehan	173 15		
Patrick McAll	43 00		
Fred McLaughlin	84 38		
William B. Mullen	6 50		
Thomas O'Hara	793 57		
T. O'Keefe	64 50		
David O'Mara	20 50		
John T. Scully	5 00		
Street Department	71 12		
Sundry persons	17 91		
John Tracy	115 50		
		1,687 38	
Use of engines and pumps :—			
E. R. Cheney	46 00		
John T Scully	76 00		
George E. Worthen	1,217 00		
		1,339 00	
Total			73,619 11
Balance unexpended			$25,391 65

SEWER DEPARTMENT.

CONSTRUCTION.

Appropriation			$21,000 00
RECEIVED.			
For assessments		$8,795 04	
Land damages		316 44	
Permits to drain		139 41	
		$9,250 89	
EXPENDED.			
For labor, as per pay-rolls		$9,667 20	
Boots, Robert Josselyn		129 60	
Bricks :—			
Parry Brothers & Co.	$394 25		
M. W. Sands	90 47		
		484 72	
Cutting stone, Austin Ford & Son		13 50	
Execution of court, Edward A. Muller		483 97	
Amounts carried forward		$10,778 99	$21,000 00

SEWER DEPARTMENT, CONSTRUCTION — Concluded.

Amounts brought forward . . .		$10,778 99	$21,000 00
For filling, T. A. Callaghan . . .		229 63	
Fuel, Coleman Brothers . . .		34 00	
Hardware and tools, Burditt & Bynner .		11 80	
Land and damage :—			
Heirs of Elizabeth H. Bird . .	$236 20		
Heirs of John Connelly . . .	400 00		
Henderson Brothers	250 85		
		887 05	
Lumber :—			
George W. Gale Lumber Company .	$214 02		
E. D. Sawyer & Co.	206 30		
William H. Wood & Co. . . .	239 48		
		659 80	
Oatmeal, Charles James . . .		9 94	
Piles, John T. Scully		13 50	
Pipe and cement :—			
Fiske & Co, ...	$82 25		
D. W. Lewis	1,382 69		
Portland Stone Ware Company .	85 62		
		1,550 56	
Repairing tools, Fred V. Smith . .		20 75	
Rings, covers and traps :—			
Barbour-Stockwell Company . .	$270 88		
Boston Double Catch-Basin, Sewer and House Trap Company . .	84 00		
		354 88	
Sand and gravel :—			
T. A. Callaghan	$71 10		
William B. Mullen	19 99		
Thomas O'Hara	4 50		
J. M. Riley	42 90		
		138 49	
Stone, Street Department . . .		24 57	
Sundries		9 40	
Teaming :—			
P. Biggin	$25 25		
E. Fredrekson	6 75		
Fred McLaughlin	4 50		
Thomas O'Hara	306 75		
John M. Riley	25 49		
Jeremiah Sullivan	9 00		
		377 74	
Use of pump and engine :—			
George E. Worthen		105 00	
Total			15,206 10
Balance unexpended . .			$5,793 90

SEWER DEPARTMENT.

MAINTENANCE.

Appropriation			$20,000 00
RECEIVED.			
For barrels		$19 81	
Changing manhole :—			
Boston Elevated Railway Company		27 63	
Filling		53 00	
Lumber		53 31	
Manure		4 00	
Old leather		28 27	
Opening drain		2 00	
Rent		9 00	
		$197 02	
EXPENDED.			
For salaries of :—			
Superintendent, T. L. Pike	$2,000 00		
Clerk, Mary E. Rowen	393 75		
		2,393 75	
Labor, as per pay-rolls		8,371 70	
Boots, Robert Josselyn		147 06	
Bricks :—			
Parry Bros. & Co.	$95 00		
M. W. Sands	48 89		
		143 89	
Car tickets :—			
Boston Elevated Railway Company		100 00	
Carts, P. F. McDonald		790 00	
Cement and pipe, D. W. Lewis		302 10	
Chest, The J. H. Keenan Company		12 00	
Cleaning catch-basins, John Horigan		4,039 00	
Coal tubs, Wellington-Wild Coal Co.		9 00	
Excavating, Eastern Dredging Company		72 75	
Fuel, Coleman Brothers		24 00	
Frame and grate, rings and traps :—			
Barbour-Stockwell Company	$313 26		
Boston Double Catch-Basin, Sewer and House Trap Company	84 00		
		397 26	
Gas, Cambridge Gas Light Company		9 00	
Gravel and sand, Thomas O'Hara		11 70	
Hardware, tools and repairs, and supplies :—			
Burditt & Bynner	$509 22		
Charles H. Goldsmith	23 40		
James Maitland	23 02		
Fred V. Smith	33 40		
Sundry persons	18 57		
Whittier Hardware Company	9 87		
		617 48	
Amounts carried forward		$17,440 69	$20,000 00

SEWER DEPARTMENT, MAINTENANCE — Continued.

Amounts brought forward		$17,440 69	$20,000 00
For harness and repairs, etc. :—			
F. Ivers & Son	$36 60		
William H. Roberts	38 60		
		75 20	
Hay, grain and straw :—			
J. Cushing & Co.	$314 96		
C. F. & G. W. Eddy	58 82		
E. R. Luke & Co.	63 58		
		437 36	
Heating apparatus repairs :—			
Greene & Co.		67 94	
Horse clipping, C. S. Mullin & Co.		6 00	
Horse shoeing :—			
John F. Gerry & Sons	$94 75		
Street Department	34 30		
		129 05	
Hose, packing, etc. :—			
Boston Woven Hose Company		319 93	
Iron work, Miller & Shaw		82 66	
Lumber :—			
Geo. W. Gale Lumber Company	$18 55		
E D. Sawyer & Co.	30 64		
William H. Wood & Co.	216 11		
		265 30	
Meal :—			
Charles James	$4 50		
L. G. Stone	22 50		
		27 00	
Mill work :—			
J. H. Keenan Company	$130 39		
D. C. Scranton	42 27		
		172 66	
Oil, Standard Oil Company		63 16	
Painting and lettering, J. L. P. Ackers		15 37	
Shearing, forging, etc :—			
William Campbell & Co.		7 48	
Stationery and printing :—			
Cambridge Chronicle Company	$29 50		
Cotton & Gould	14 90		
E. F. Hunt & Co.	2 00		
Stationery Department	5 88		
		52 28	
Stone work, Austin Ford & Son		18 00	
Sundries		22 95	
Amounts carried forward		$19,203 03	$20,000 00

SEWER DEPARTMENT, MAINTENANCE — Concluded.

Amounts brought forward		$19,203 03	$20,000 00
Teaming :—			
Thomas O'Hara	$130 00		
Sundry persons	7 50		
		137 50	
Telephone rent and tolls		25 20	
Wagon and carriage repairs :—			
F. Ivers & Son	$299 25		
James Maitland	11 82		
Charles Waugh & Co.	79 10		
		390 17	
Total			19,755 90
Balance unexpended			$244 10

STATE AID.

Appropriation			$25,500 00
RECEIVED.			
From the Commonwealth of Massachusetts in reimbursement, in part, of the amount the City has advanced, in conformity to the laws of the State, to volunteers and their families, or other dependents of volunteers of the army and navy :—			
For military aid	$1,038 73		
State aid	14,469 00		
Burials of soldiers and sailors	490 00		
		$15,997 73	
Aid		72 00	
Board		262 59	
Money uncalled for on pay-rolls		197 50	
		$16,529 82	
EXPENDED.			
For salary of Clerk, Chas. L. Russell		900 00	
State aid		13,525 00	
Military aid		1,204 00	
Soldiers and sailors' aid		7,386 00	
Aid :—			
City of Malden	$14 00		
Town of Lunenburg	14 50		
Town of Middleborough	31 00		
Town of Whitman	7 25		
		66 75	
Board and care :—			
A. F. Brown	$140 46		
Cambridge City Home	279 63		
Danvers Insane Hospital	102 62		
Amounts carried forward	$522 71	$23,081 75	$25,500 00

STATE AID — Concluded.

Amounts brought forward	$522 71	$23,081 75	$25,500 00
For Medfield Insane Asylum	292 00		
Worcester Insane Asylum	167 14		
Worcester Insane Hospital	169 46		
		1,151 31	
Burials :—			
W. Banks	$70 00		
John B. Burke	35 00		
John W. Coveney	105 00		
Daniel P. Danehy	35 00		
David Fudge & Son	35 00		
Jos. J. Kelley & Son	175 00		
H. D. Litchfield	70 00		
Judson Litchfield	35 00		
A. E. Long	70 00		
John J. Murphy	35 00		
Geo. Nichols	35 00		
Roswell Roles & Co.	35 00		
Shea Brothers	70 00		
		805 00	
Car tickets :—			
Boston Elevated Railway Company		15 00	
Fuel :—			
Baker-Hunnewell Company	$95 25		
Clark Bros.	9 90		
		105 15	
Professional services :—			
C. S. Cummings, M. D.		39 25	
Stationery and printing :—			
Cotton & Gould	$1 70		
Powell & Co.	91 75		
Stationery Department	17 57		
		111 02	
Sundries		9 40	
Supplies, Yerxa & Yerxa		84 00	
Typewriting, E. W. Pike		12 00	
Total			25,413 88
Balance unexpended			$86 12

STATIONERY AND PRINTING.

Appropriation		$3,025 00
RECEIVED.		
From sundry departments for supplies	$982 17	
EXPENDED.		
For advertising :—		
D. A. Buckley	$24 25	
Cambridge Chronicle Company	53 82	
Amounts carried forward	$78 07	$3,025 00

STATIONERY AND PRINTING — Concluded.

Amounts brought forward			$3,025 00
For F. S. Hill	$30 25		
Press Newspaper Company	38 46		
Times Publishing Company	23 50		
		$170 28	
Binding:—			
J. H. H. McNamee	$78 70		
David Farquhar	18 70		
		97 40	
Examination of bills, Chas. Walker		12 00	
Postage, F. M. Small		625 00	
Printing:—			
Cambridge Chronicle Company	$261 21		
Caustic & Claflin	59 00		
J. A. Cummings Printing Company	1,270 22		
J. Frank Facey	19 25		
Press Newspaper Company	6 50		
The Co-operative Press	90 00		
		1,706 18	
Stationery and supplies:—			
Adams, Cushing & Foster	$9 50		
Carter's Ink Company	8 00		
Cotton & Gould	275 72		
E. F. Hunt & Co.	50 25		
Chas. H. Thurston	31 00		
Samuel Ward Company	24 29		
		398 76	
Sundries		2 70	
Telephone mouthpieces, Antiseptic Mouthpiece Company		9 00	
Total			3,021 32
Balance unexpended			$3 68

STREET DEPARTMENT.

BRIDGES.

Appropriation			$2,500 00
EXPENDED.			
For salaries of draw tenders:—			
John Gaughan	$781 86		
John F. Powers	838 87		
		$1,620 73	
Laborers, as per pay-rolls		197 87	
Hardware:—			
Burditt & Bynner	$54 15		
F. A. White	2 65		
		56 80	
Iron work, Miller & Shaw		19 60	
Amounts carried forward		$1,895 00	$2,500 00

STREET DEPARTMENT, BRIDGES — Concluded.

Amounts brought forward		$1,895 00	$2,500 00
For lumber :—			
John S Clary	$90 56		
Geo. W. Gale Lumber Company	80 12		
Wm. H. Wood & Co.	366 10		
		536 78	
Oakum, Harrington, King & Co.		5 50	
Work on draw, John T. Scully		25 00	
			2,462 28
			$37 72

STREET DEPARTMENT.

CLEANING STREETS.

Appropriation			$34,500 00
EXPENDED.			
For labor, as per pay-rolls		$25,186 42	
Freight, Boston & Maine Railroad		8 96	
Hardware, tools and supplies :—			
Jos Breck & Sons	$42 65		
Brock Brothers	11 50		
Burditt & Bynner	1 20		
Dodge, Haley & Co.	46 15		
F. A. White	31 41		
		132 91	
Hay and grain, J Cushing & Co.		1,093 09	
Snow plow, W. F. Wheeler		60 00	
Sweepers and repairs :—			
Automobile Street Sweeping Company	$290 00		
Barbour-Stockwell & Co.	30 27		
Charlton Manufacturing Company	2,332 00		
Edson Manufacturing Company	180 55		
Ira G. Hersey	2 90		
N. E Broom Company	634 00		
W. C. Oastler	975 00		
Rent and board of workman	16 05		
		4,460 77	
Teaming, sundry persons		3,557 64	
Total			34,499 79
Balance unexpended			$ 21

STREET DEPARTMENT.

COLLECTION OF ASHES.

Appropriation			$28,000 00
For labor, as per pay-rolls		$20,372 48	
Bicycle repairs, J L. Moseley		13 45	
Carts, Shadbolt Manufacturing Co.		2,997 80	
Covers, Geo T. Hoyt & Co.		115 50	
Feed-bags, Jos. Breck & Sons		12 69	
Amounts carried forward		$23,511 92	$28,000 00

STREET DEPARTMENT, COLLECTION OF ASHES — Concluded.

Amounts brought forward . . .		$23,511 92	$28,000 00
For hardware, tools and supplies :—			
Brock Brothers	$20 70		
Dodge, Haley & Co.	152 15		
Sundry p rsons	6 69		
F. A. White	6 75		
		186 29	
Harness :—			
W H. Bustin & Son	$135 00		
Jas. Forgie & Son	70 00		
		205 00	
Hay and grain :—			
J. Cushing & Co.	$2,094 16		
C. F. & G. W. Eddy	362 58		
		2,456 74	
Horses, Welch & Hall		339 12	
Hose, Boston Woven Hose Company .		50 00	
Lumber :—			
John S. Clary	$439 42		
Geo W. Gale Lumber Company .	2 48		
W. H. Wood & Co.	13 74		
		455 64	
Mason work, Thos. Leahy & Son . .		154 14	
Mill work, Ira G. Hersey . . .		7 32	
Printing, Cambridge Chronicle Company		32 00	
Teaming, sundry persons . . .		358 25	
Truck springs, Duff Spring Company .		28 32	
Wagon, Watson Wagon Company .		215 20	
Total			27,999 94
Balance unexpended . .			$ 06

STREET DEPARTMENT.

CONSTRUCTION GREEN STREET.

Appropriation			$900 00
EXPENDED.			
For labor, as per pay-rolls . . .		$195 23	
Stone :—			
S. & R. J. Lombard . . .	$135 50		
Wm. B. Mullen	483 73		
		619 23	
Teaming, sundry persons . . .		85 51	
Total			899 97
Balance unexpended . .			$ 03

STREET DEPARTMENT.

CONSTRUCTION INMAN COURT.

Appropriation		$1,100 00
EXPENDED.		
For labor, as per pay-rolls	$271 06	
Stone, S. & J. Lombard	160 80	
Teaming, sundry persons	33 78	
Total		465 64
Balance unexpended		$634 36

STREET DEPARTMENT.

MAINTENANCE.

Appropriation			$80,000 00
RECEIVED.			
For apples	$10 00		
Ashes, scrapings, etc.	427 69		
Boiler	25 00		
Bricks	20 00		
Dump	204 00		
Horse board	292 00		
Horse shoeing	659 77		
Iron	17 15		
Labor and materials	1,039 09		
Old houses	25 00		
Old wheels	15 00		
Stone	21 09		
Sundries	10 25		
Wagon	10 00		
	$2,776 04		
EXPENDED.			
For salaries of :—			
Superintendent, Chas. A. Brown	$2,000 00		
Clerks :—			
Geo. M. Clukas	1,460 67		
Imogene B. Hixon	237 00		
Georgie W. Sanborn	325 00		
Bessie W. Sprague	109 25		
District foremen :—			
E. Osborn	1,103 81		
J. A. Sheridan	1,261 00		
Laborers, as per pay-rolls	36,536 39		
Injured employees paid for lost time	188 00		
		$43,221 12	
Amount carried forward		$43,221 12	$80,000 00

STREET DEPARTMENT, MAINTENANCE — Continued.

Amounts brought forward		$43,221 12	$80,000 00
For carriages and wagons, new and repairs :—			
Chapman Carriage Company	$216 25		
Philip Frederick	25 00		
Ira G. Hersey	11 37		
Henry J. Winde	97 04		
		349 66	
For car tickets :—			
Boston Elevated Railway Company		30 00	
Cash expended for traveling and sundries, Chas. A. Brown		247 58	
Freight		23 42	
Fuel :—			
Baker-Hunnewell Company	$1,522 68		
Cambridge Gas Light Company	3 50		
Dennis-Thompson-Pierce Company	219 35		
Metropolitan Coal Company	80 88		
		1,826 41	
Gravel, freight and loading :—			
Fitchburg Railroad Company	$80 00		
John McGinnis	2 50		
Wm B. Mullen	321 70		
Joshua Stone	236 55		
Josephine E. Stone	185 00		
		825 75	
Hardware, tools and repairs, and supplies :—			
Barbour-Stockwell Company	$7 38		
Bay State Forge	7 00		
Jos. Breck & Sons	154 50		
Brock Brothers	109 62		
Burditt & Bynner	143 50		
Burditt & Williams	26 88		
Dodge, Haley & Co.	909 09		
F. E. Fitts Manufacturing and Supply Company	48 30		
Kane & Roach	175 00		
Frank P Merrill	22 22		
A O Norton	6 50		
Daniel J Sullivan	25 30		
Sundry persons	13 49		
Union Glass Company	84 05		
Useful Novelty Company	21 60		
F. A. White	149 34		
		1,903 77	
Harness, new, and repairs, horse, clothing, etc. :—			
Jas. Forgie & Son	$251 74		
Wm. T. Gibson	3 00		
F. Ivers & Son	48 45		
Hugh McCaffrey	381 42		
Jos. A. Ryan	69 05		
		753 66	
Amounts carried forward		$49,181 37	$80,000 00

STREET DEPARTMENT, MAINTENANCE — Continued.

Amounts brought forward . . .		$49,181 37	$80,000 00
For hay, grain and straw :—			
J. Cushing & Co.	$4,913 91		
C. F. & G W. Eddy	706 74		
L. G. Stone	77 50		
Tucker, Sanborn & Co. . . .	10 50		
		5,708 65	
Horses :—			
P. H. Dardis	$225 00		
Jas D Schurman	160 00		
Welch & Hall	632 79		
		1,017 79	
Lighting :—			
Cambridge Electric Light Company .		421 67	
Lumber :—			
John S Clary	$285 50		
Geo. W Gale Lumber Company .	725 79		
Wm. H. Wood & Co. . . .	13 24		
		1,024 53	
Office expenses :—			
Atlas, Geo W. Stadly & Co . .	$35 00		
Books on "Road Construction," Little, Brown & Co. . . .	10 00		
Counter and door, W. H. Norris .	128 41		
Directories, E. F. Hunt & Co. . .	9 00		
Photographs	16 16		
Stationery, printing and typewriting supplies :—			
Cambridge Chronicle Company .	114 97		
Cotton & Gould	85 77		
J. A. Cummings Printing Company	45 98		
Stationery Department . . .	67 05		
Sundry persons	23 04		
Edw. W. Wheeler	32 00		
Telephone rent and tolls . . .	313 45		
Typewriter :—			
Smith-Premier Typewriter Company	79 50		
		960 33	
Paints, oils, etc :—			
W. A. Morrison	$134 60		
Standard Oil Company . . .	132 63		
Sudbury Oil and Supply Company .	18 79		
Sundry persons	7 50		
		293 52	
Repairs to asphalt pavement, Mass. Ave. :—			
Barber Asphalt Paving Company .		274 12	
Stable repairs and supplies :—			
Building forge, R. Thomas . .	$10 00		
Carpentry, W. H. Norris . . .	366 28		
Amounts carried forward . .	$376 28	$58,881 98	$80,000 00

STREET DEPARTMENT, MAINTENANCE — Continued.

Amounts brought forward	$376 28	$58,881 98	$80,000 00
For hardware, tools and supplies :—			
Anglo-American Oil Company	10 00		
Brock Brothers	59 19		
W. C Duren	31 08		
Eastern Drug Company	4 89		
N. E. Bolt & Nut Company	27 09		
Packard & Burrill	46 00		
The E L. Patch Company	39 75		
Red Cross Chemical Company	14 40		
W. A. Snow & Co.	20 00		
Heating apparatus, etc. :—			
Moynhan & Co.	49 27		
Hose, etc. :—			
Boston Woven Hose Company	33 60		
		711 55	
Steam roller, Wm. C. Oastler		3,000 00	
Steam roller, repairs and supplies :—			
Barbour-Stockwell Company	$568 68		
Chas. A. Claflin & Co.	19 25		
Wm. H Gallison Company	212 87		
Gould Packing Company	12 20		
A. H. Hews & Co.	164 74		
Edw. Kendall & Sons	262 93		
Miller & Shaw	50 06		
Sundry persons	6 26		
A. J. Wilkinson & Co.	37 44		
		1,334 43	
Stone crusher repairs :—			
Boston Belting Company	$88 25		
John B. Byrne	297 00		
The Farrell Foundry & Machine Co.	124 13		
Wm. H. Gallison Company	17 60		
Greene & Co.	45 00		
J. H. Houghton	69 10		
Edw Kendall & Sons	70 48		
Miller & Shaw	74 04		
Roberts Iron Works Company	482 28		
Steele & Condict	217 12		
Taylor Iron and Steel Company	164 93		
C. White	34 00		
		1,683 93	
Stone :—			
Boston Elevated Railway Company	$205 55		
Massachusetts Broken Stone Company	283 61		
Wm. B. Mullen	674 01		
Sundry persons (field stone)	10,269 18		
Testing rock, Lionel S. Marks	20 00		
		11,452 35	
Sundries		38 78	
Teaming, sundry persons		2,827 75	
Amounts carried forward		$79,930 77	$80,000 00

STREET DEPARTMENT, MAINTENANCE — Concluded.

Amounts brought forward		$79,930 77	$80,000 00
For use of horses and carriages :—			
J. E. Fabyan	$8 00		
Grafton E. Kirwin	25 00		
F. P. Merrill	7 00		
Ralph Smith & Co.	8 00		
Geo. F. Whiting & Co.	8 00		
G. W. Worcester	13 00		
		69 00	
Total			79,999 77
Balance unexpended			$ 23

STREET DEPARTMENT.

CLAY LANDS.

Appropriation			$2,093 16
EXPENDED.			
For labor, as per pay rolls		$154 00	
Carting gravel, T. A. Callaghan		475 42	
Gravel :—			
Wm. B. Mullen		64 41	
P. O'Riorden		930 60	
Total			1,624 43
Balance unexpended			$468 73

STREET DEPARTMENT.

PAVING, EDGESTONES AND SIDEWALKS.

Appropriation			$25,000 00
RECEIVED.			
For edgestone and sidewalk assessments		$11,540 04	
Labor and materials		670 88	
		$12,210 92	
EXPENDED.			
For labor, as per pay-rolls		$9,726 29	
Artificial stone walks, Simpson Brothers		308 20	
Bricks and paving :—			
Eastern Paving Brick Company	$2,494 06		
M. W. Sands	3,102 82		
		5,596 88	
Cable, Bruce R. Ware & Co.		6 60	
Amounts carried forward		$15,637 97	$25,000 00

STREET DEPARTMENT, PAVING, EDGESTONES AND SIDEWALKS — Concluded.

Amounts brought forward		$15,637 97	$25,000 00
For hardware and tools :—			
Joseph Breck & Sons	$184 24		
Burditt & Bynner	39 48		
Dodge, Haley & Co.	11 13		
		234 85	
Labor, Antoni Leonard		219 45	
Lumber, Geo. W. Gale Lumber Company		24 34	
Oil, Standard Oil Company		47 52	
Repairing sand screen :—			
Joseph Breck & Sons		3 75	
Stone :—			
S. & R. J. Lombard	$5,469 31		
Charles McMahon	50 00		
		5,519 31	
Teaming :—			
John M. Riley	$223 75		
Sundry persons	2,303 48		
		2,527 23	
Transportation : —			
Boston & Maine Railroad	$392 00		
Fitchburg Railroad Company	392 00		
		784 00	
Total			24,998 42
Balance unexpended			$1 58

STREET DEPARTMENT.

PAVING, CROSSINGS AND REPAIRS.

Appropriation			$10,000 00
EXPENDED.			
For labor, as per pay-rolls		$7,743 82	
Bricks, M. W. Sands		170 91	
Laying concrete, Simpson Brothers		15 00	
Lumber and cement :—			
Geo. W. Gale Lumber Company	$66 86		
Windsor Cement Company	197 50		
William H. Wood & Co.	2 75		
		267 11	
Recutting paving blocks :—			
Thomas Joy	$17 89		
Theodore Raymond	33 44		
		51 33	
Amounts carried forward		$8,248 17	$10,000 00

STREET DEPARTMENT, PAVING, CROSSINGS AND REPAIRS — Concluded.

Amounts brought forward		$8,248 17	$10,000 00
For stone :—			
S. & R. J. Lombard	$21 05		
William J. McCarthy	600 92		
William B. Mullen	43 90		
		665 87	
Sundries		8 00	
Teaming :—			
P. J. Curley	$29 00		
Sundry persons	824 68		
		853 68	
Transportation of gravel :—			
Boston & Maine Railroad Company	$64 00		
Fitchburg Railroad Company	160 00		
		224 00	
Total			9,999 72
Balance unexpended			$ 28

STREET DEPARTMENT.

REBUILDING CAMBRIDGE STREET.

Appropriation			$18,000 00
EXPENDED.			
For labor, as per pay-rolls		$3,683 13	
Gravel :—			
William B. Mullen	$55 25		
Sundry persons	3 50		
		58 75	
Labor, Antoni Leonard		114 75	
Oil, Standard Oil Company		13 95	
Stone, S. & R. J. Lombard		11,646 65	
Teaming :—			
Jeremiah Sullivan	$634 70		
Sundry persons	1,238 34		
		1,873 04	
Transportation :—			
Boston & Maine Railroad		608 00	
Total			17,998 27
Balance unexpended			$1 73

STREET DEPARTMENT.

REBUILDING INMAN STREET.

Appropriation		$1,200 00
RECEIVED.		
For labor and materials	$1,000 00	
Rent of yard	200 00	
	$1,200 00	
EXPENDED.		
For labor, as per pay-rolls	$376 75	
Stone (field), sundry persons	349 57	
Teaming, sundry persons	473 68	
Total		$1,200 00

STREET DEPARTMENT.

REBUILDING PEARL STREET AND HARVARD SQUARE.

Appropriation			$33,253 40
RECEIVED.			
For labor and materials		$5,740 20	
EXPENDED.			
For Pearl Street:—			
Labor, as per pay-rolls		10,029 58	
Cement:—			
Bryant & Kent	$2,430 70		
Waldo Brothers	1,012 50		
		3,443 20	
Hose, Boston Woven Hose Company		42 00	
Labor, Antoni Leonard		128 25	
Lantern frames, Joseph Breck & Sons		35 42	
Lumber, Geo. W Gale Lumber Co.		64 99	
Oil, Standard Oil Company		4 75	
Paving blocks, Higley, Keplinger & Co.		9,000 00	
Roof pitch, New England Felt Roofing Works		145 25	
Stone:—			
S. & R J. Lombard	$115 29		
William B. Mullen	1,228 16		
		1,343 45	
Tar kettle and stand, Howard F. Peak		25 00	
Teaming:—			
P. J Curley	$298 44		
J. M. Riley	536 22		
Sundry persons	1,798 96		
		2,633 62	
Amounts carried forward		$26,895 51	$33,253 40

STREET DEPARTMENT, REBUILDING PEARL STREET AND HARVARD SQUARE — Concluded.

Amounts brought forward . . .		$26,895 51	$33,253 40
For transportation :—			
Boston & Maine Railroad . .	$488 00		
Fitchburg Railroad . . .	24 00		
		512 00	
Use of steam roller, Barber Asphalt Co.		155 00	
Total for Pearl Street		$27,562 51	
For Harvard Square :—			
Labor, as per pay-roll . . .		152 25	
Cement :—			
Bryant & Kent	$139 52		
Waldo Brothers	540 00		
		679 52	
Paving brick, Higley, Keplinger & Co.		2,639 58	
Pitch, New England Felt Roofing Works		8 25	
Stone, William B Mullen . . .		134 29	
Teaming, sundry persons . . .		148 79	
Total for Harvard Square . .		3,762 68	
Total			31,325 19
Balance unexpended . .			$1,928 21

STREET DEPARTMENT.

REBUILDING PORTLAND STREET.

Appropriation			$22,486 80
EXPENDED.			
For labor as per pay-rolls . . .		$5,346 57	
Gravel, Wm. B Mullen		112 20	
Loading cars, Antoni Leonard . .		233 70	
Lumber, Geo. W. Gale Lumber Company		8 57	
Oil, Standard Oil Company . . .		5 00	
Stone :—			
S. & R J. Lombard	$1,167 37		
William J. McCarthy	258 73		
Charles McMahon	13,160 94		
		14,587 04	
Teaming, sundry persons . . .		1,817 72	
Transporation, Fitchburg Railroad Co.		376 00	
Total			$22,486 80

STREET DEPARTMENT.

WATERING.

Appropriation			$26,000 00
RECEIVED.			
For assessments		$15,925 14	
Collections		1,433 57	
		$17,358 71	
EXPENDED.			
For salary of :—			
Foreman Chas. McHugh		1,026 00	
Laborers, as per pay-rolls		1,282 89	
Bicycle repairs, J. L. Moseley		21 95	
Carts, repairs and fittings :—			
Abbott-Downing Company	$255 00		
American Stave & Cooperage Co.	267 00		
Barbour-Stockwell Company	18 98		
Duff Spring Company	249 04		
J. L. & H. K. Potter	391 12		
Water Works Department	290 00		
		1,471 14	
Conductors, etc. :—			
Boston Woven Hose Company		34 82	
Hardware and supplies :—			
Dodge, Haley & Co.		54 41	
Labor and fittings, Water Works Dept.		58 24	
Lumber :—			
Geo. W. Gale Lumber Company	$37 06		
Henry J. Winde	295 49		
		332 55	
Mill work, Ira G. Hersey		31 71	
Paints, oils, brushes, etc. :—			
Burditt & Bynner	$138 42		
Wadsworth, Howland & Co.	276 42		
		414 84	
Sprinkling by contract, sundry persons		21,265 65	
Sundries		5 80	
Total			$26,000 00

TREASURY DEPARTMENT.

Appropriation			$15,500 00
RECEIVED.			
For fees from sundry persons		$2,634 78	
EXPENDED.			
For salaries of :—			
City Treasurer, Wm. W. Dallinger	$3,000 00		
Amounts carried forward	$3,000 00		$15,500 00

TREASURY DEPARTMENT — Concluded.

Amounts brought forward		$3,000 00	$15,500 00
For clerks :—			
E G. Stevens	1,565 00		
E. J. Howlett	1,252 00		
J. H. Webber	1,252 00		
C H. Dodge	939 00		
E. E. Estes	782 50		
P B. Dallinger	681 67		
Temporary Clerks	1,070 09		
		10,542 26	
Advertising : —			
Boston Daily Advertiser	$34 00		
Cambridge Chronicle Company	5 05		
		39 05	
Atlas, Geo. W. Stadly & Co.		35 00	
Bonds, American Bank Note Company		50 00	
Carriage hire, M. J. Fairbanks		504 00	
Car tickets :—			
Boston Elevated Railway Company		20 00	
Commissions for collecting taxes :—			
Jas. A. Brown	$401 69		
John Foster	363 51		
Joseph Fox	705 78		
Warren Ivers	1,042 44		
		2,513 42	
Directories		11 00	
Postage. F. M Small		963 80	
Recording deeds, E. O. Childs		35 50	
Repairing boxes, A. M. Robbins		7 50	
Stationery, printing, etc. :—			
Carter, Rice & Co.	$27 33		
William H Claflin & Co.	57 00		
Cotton & Gould	116 60		
J. A. Cummings Printing Company	14 27		
J. Frank Facey	22 50		
John H. Ford	320 22		
Stationery Department	35 79		
Times Publishing Company	8 25		
John Wilson & Son	13 00		
		614 96	
Stamps :—			
Boston Stencil and Stamp Works		9 60	
Subscription, Geo. E. French		6 00	
Sundries		6 30	
Telephone rent and tolls		119 75	
Total			15,478 14
Balance unexpended			$21 86

WATER WORKS.

CONSTRUCTION.

Appropriation			$20,000 00
RECEIVED.			
For old pipe and material		$62 10	
Premium on bonds		1,960 80	
		$2,022 90	
EXPENDED.			
For labor, as per pay-rolls		4,630 57	
Building house, Briggs Brothers		1,275 00	
Copper, etc., S. D. Hicks & Son		388 52	
Cupboard, The J. H Keenan Company		8 00	
Expressage, Dodge Express Company		17 37	
Frames and covers :—			
Barbour-Stockwell Company		111 50	
Freight :—			
Schooner "Andrew Peters"	$267 96		
Sundry persons	5 50		
		273 46	
Hardware, tools and supplies :—			
Jos. Breck & Sons	$29 01		
Dodge, Haley & Co.	18 50		
J. A. Higgins	10 94		
Sundry persons	8 87		
		67 32	
Heating apparatus, Greene & Co.		48 45	
Labor and material, Street Department		66 39	
Lead, Waite, Ranlet & Co.		787 28	
Lighting apparatus, Geo. F. Dickson		58 03	
Lumber, Geo. W Gale Lumber Company		214 37	
Manholes, Samuel McCulloch		47 10	
Meters and repairs :—			
E. W. Boynton	$26 74		
Hersey Manufacturing Company	154 99		
Neptune Meter Company	1,266 40		
Thomson Meter Company	630 00		
		2,078 13	
Pipe, fittings, etc. :—			
Peter Barclay Manufacturing Co.	$10 80		
Chapman Valve Manufacturing Co.	986 70		
Davis & Farnum Manufacturing Co.	85 11		
D W. Lewis	186 27		
The A. P. Smith Manufacturing Co.	52 50		
Walworth Manufacturing Company	169 18		
Warren Foundry & Machine Company	4,500 20		
		5,990 76	
Rope, Harrington, King & Co.		9 68	
Screens, T. B. Wentworth		42 90	
Setting meters, Supplies Department		626 08	
Amounts carried forward		$16,740 91	$20,000 00

WATER WORKS, CONSTRUCTION — Concluded.

Amounts brought forward . . .		$16,740 91	$20,000 00
For stone and paving blocks :—			
S. & R. J. Lombard		25 20	
Sundries		11 97	
Tees, etc., Builders Iron Foundry .		64 80	
Teaming :—			
Chas. McMahon	$28 50		
Sundry persons	97 70		
		126 20	
Use of steam roller, Street Department		22 50	
Wharfage for pipe, Chas. McMahon .		8 02	
Total			16,999 60
Balance unexpended . . .			$3,000 40

WATER WORKS.

FRESH POND RESERVOIR.

Appropriation			$500 00
EXPENDED.			
For labor, as per pay-rolls . . .		$30 50	
Teaming, sundry persons . . .		24 75	
Total			55 25
Balance unexpended . .			$444 75

WATER WORKS.

HOBBS BROOK RESERVOIR.

Appropriation			$9,600 00
EXPENDED.			
For labor, as per pay-rolls . . .		$97 50	
Brick, cement, sand, etc. :—			
G. F. Frost	$41 66		
F. M. Keefe	64 23		
		105 89	
Cash expended for sundries :—			
Silas Baxter		93 04	
Damages, Geo. A. Foote . . .		185 89	
Examining titles, Clarence F. French .		35 00	
Hardware, J. A. Higgins . . .		25 87	
Amounts carried forward . .		$543 19	$9,600 00

WATER WORKS, HOBBS BROOK RESERVOIR — Concluded.

Amounts brought forward . . .		$543 19	$9,600 00
For inspections :—			
Cigars :—			
Billings & Stover	$8 25		
Holderer & Macdonald . . .	6 00		
Dinners, Woodland Park Hotel . .	80 40		
Printing, Cambridge Chronicle Co.	9 50		
Special car :—			
Boston Elevated Railway Company	5 00		
Wellesley & Boston Street Railway Co.	4 00		
Transportation, Fitchburg Railroad Co.	3 94		
		117 09	
Lumber :—			
Buttrick Lumber Company . .	$67 77		
Geo J. Barker Lumber Company .	17 30		
		85 07	
Marble wall tablet :—			
John McNamee's Sons . . .		297 00	
Mason work, Jas. E. Burke . .		97 00	
Plumbing, Fred. H. Kerwin . . .		62 09	
Professional services :—			
A. Greenwood, M. D. . . .	$40 00		
Ralph Woodworth	7 00		
		47 00	
Services as engineer, T. Howard Barnes		138 80	
Services as witnesses :—			
C. S. Bruce	$5 00		
F. B. Crockett	5 00		
Herbert W. Groves	2 00		
Jos. Long	100 00		
Wm. P. McKenna	12 25		
Frank X. Saucier	150 00		
W. H Tuck	121 00		
Louis B. Vaughan	50 00		
		445 25	
Stenographic reports, Wm. B. Wright		347 38	
Stone work, John McNamee's Sons .		5 00	
Sundries		6 65	
Teaming, etc., W. E. Kingsbury . .		394 13	
Total			2,585 65
Balance unexpended . .			$7,014 35

WATER WORKS.

HOBBS BROOK RESERVOIR.

Services of City Solicitor.

Appropriation		$500 00
EXPENDED.		
For services of City Solicitor	$500 00	
Total		500 00

WATER WORKS.

MAINTENANCE, GENERAL ACCOUNT.

Appropriation		$64,500 00
RECEIVED.		
For barrels	$6 50	
Freight	1 68	
Grass	232 50	
Hay	65 00	
Junk	507 11	
Labor	95 50	
Material	1 00	
Old iron	2 90	
Old pump	500 00	
Plants	1,345 32	
Pipe	35 22	
Watering cart	290 00	
	$3,082 73	
EXPENDED.		
For General Account:—		
Salaries of:—		
Superintendent E. C. Brooks	$2,365 71	
Assistant Superintendent, Chas. B. Parker	1,560 00	
Treasurer of Sinking Funds, Wm. W. Dallinger	200 00	
Inspectors:—		
F. G. Davis	1,023 67	
C. E. McGuire	787 50	
Keeper at Hobbs Brook Reservoir:—		
J. E. Bryant	740 00	
Machinist, I. H. Henderson	792 86	
Time keeper, F W. Cone	951 00	
Laborers, as per pay rolls	19,830 62	
	28,251 36	
Atlas, Geo. W. Stadly & Co.	35 00	
Amounts carried forward	$28,286 36	$64,500 00

WATER WORKS, MAINTENANCE, GENERAL ACCOUNT — Continued.

Amounts brought forward . . .		$28,286 36	$64,500 00
For bicycle repairs :—			
International Automobile & Vehicle Co.	$5 50		
J. L. Moseley	8 85		
		14 35	
Burlap, twine, etc., Jas Baker . .		23 46	
Carpentry, E. W. Boynton & Co. .		31 65	
Carriage and wagon repairs :—			
Abbott-Downing Company . .	$30 75		
Chapman Carriage Company . .	45 00		
Lussier & Bonin	41 60		
Hugh Stewart & Co. . . .	162 80		
Sundry persons	2 50		
Chas. Waugh & Co. . . .	76 00		
		358 65	
Car tickets, Boston Elevated Railway Co.		175 00	
Cases, J. H. Corcoran & Co. . .		10 05	
Clearing snow, Boston Packing & Provision Co.		25 00	
Cotton, J. H. Corcoran & Co. . .		7 50	
Electrical expert, Chas. H. Morse .		200 00	
Electrical work, F. Bryant & Co. .		11 13	
Execution of court, Jeremiah O'Connor		165 00	
Expressage :—			
Dodge's Express Company . .	$14 49		
Hatch & Co.	12 24		
Sundry persons	5 15		
		61 88	
Fuel :—			
Coleman Brothers	$20 41		
Richardson & Bacon . . .	6 25		
Wellington-Wild Coal Company .	47 68		
		74 34	
Gas, Cambridge Gas Light Company		8 50	
Hardware, tools, machinery and repairs :—			
Jos Breck & Sons	$18 88		
Burditt & Bynner	102 53		
Chas Carr	19 50		
Chandler & Farquhar . . .	33 32		
Dodge, Haley & Co . . .	13 76		
C. H. Goldsmith	6 00		
J. A Higgins	15 99		
Jas. Maitland	88 23		
Miller & Shaw	23 66		
Packard & Burrill	11 65		
Reed Manufacturing Company .	19 00		
Sundry persons . . .	11 07		
Walworth Manufacturing Company	18 08		
F. A. White	18 29		
		399 96	
Harness, repairs, horse clothing, etc. :—			
Jas. Forgie & Son	$17 00		
M. Cavanagh	156 95		
		173 95	
Amounts carried forward . .		$30,026 78	$64,500 00

WATER WORKS, MAINTENANCE, GENERAL ACCOUNT — Continued.

Amounts brought forward		$30,026 78	$64,500 00
For hay, grain, etc :—			
J. Cushing & Co.	$437 80		
David O'Mara	26 84		
Geo. B Pope & Co.	66 29		
L. G. Stone	15 00		
		545 93	
Horse shoeing :—			
Wm. Balmer	$74 00		
John F. Gerry & Sons	63 00		
John A. Green	1 50		
Helm & Nelsen	18 25		
Thos. Smith	185 25		
Street Department	9 80		
		351 80	
Horse, Geo. F. Whiting		200 00	
Hose, packing, etc. :—			
Boston Woven Hose Company		44 07	
Ice, Boston Ice Company		97 40	
Inspection of nursery, H. T. Fernald		9 79	
Labor and materials :—			
Supplies Department		212 32	
Lumber, cement, etc. :—			
Geo. W. Gale Lumber Company	$76 91		
Wm. H. Wood & Co.	18 40		
		95 31	
Meters and repairs :—			
Hersey Manufacturing Company	$50 27		
National Meter Company	115 03		
Neptune Meter Company	21 48		
Union Water Meter Company	377 64		
Henry R. Worthington	66 00		
		630 42	
Motor service :—			
Cambridge Electric Light Company		73 75	
One-half of expense of replacing boiler		12 50	
Oil, Standard Oil Company		21 48	
Painting, papering, etc. :—			
J. L. P. Ackers	$1 63		
Chas. A. Sawyer	47 15		
J. H. & J. P. Thayer & Co.	15 30		
		64 08	
Pasturing horse, Mason P. Hunter		6 00	
Pipe fittings, etc. :—			
Barbour-Stockwell Company	$7 50		
Chapman Valve Manufacturing Co.	63 93		
Levi Hawkes	8 20		
Norwood Engineering Company	8 24		
Sundry persons	5 25		
Walworth Manufacturing Company	95 63		
		188 75	
Amounts carried forward		$32,580 38	$64,500 00

WATER WORKS, MAINTENANCE, GENERAL ACCOUNT — Continued.

Amounts brought forward		$32,580 38	$64,500 00
For plumbing :—			
Levi Hawkes	$11 13		
Fred. H. Kirwin	19 90		
		31 03	
Repairs, Boston & Maine Railroad		28 55	
Recording instrument, The Bristol Co.		7 50	
Rent of box :—			
Cambridge Safe Deposit & Trust Co.		20 00	
Repairing fountains :—			
Edward Kendall & Sons	$8 44		
Miller & Shaw	4 91		
		13 35	
Services of landscape architects :—			
Olmsted Brothers		1,628 95	
Services of diver, Geo. W. Townsend		15 00	
Services :—			
A. Greenwood, M. D.	$240 00		
Moses W. Kidder, M. D.	20 00		
		260 00	
Shrubs, Harlan P. Kelsey		27 35	
Stationery and printing :—			
Brooks Bank Note Company	$24 00		
Cambridge Chronicle Company	33 85		
J. A. Cummings Printing Company	35 29		
Frost & Adams Company	7 10		
Sundry persons	10 66		
Thorp & Martin Company	198 55		
		309 45	
Stone :—			
Massachusetts Broken Stone Co.		171 75	
Sundries		41 80	
Teaming, sundry persons		81 01	
Telephone rent and tolls		263 76	
Testing leakage of current from Boston Elevated Railroad tracks :—			
Walter E. Hadley	$30 00		
Ernest B. McNaughton	30 00		
		60 00	
Use of horses and carriages :—			
Grafton E. Kirwin	$55 00		
Ralph Smith & Co.	10 00		
		65 00	
Total expenses General Account		$35,604 88	
Amount carried forward			$64,500 00

WATER WORKS, MAINTENANCE, GENERAL ACCOUNT — Continued.

Amount brought forward			$64,500 00
For Office Expenses :—			
Salaries :—			
Water Registrar, W. H. Harding		$2,735 33	
Clerks :—			
G. K. Dame	$634 00		
H. L. Lincoln	1,228 37		
H. F Milligan	792 50		
M. M. Robbins	634 00		
		3,288 87	
Car tickets :—			
Boston Elevated Railway Company		50 00	
Stationery, printing, etc. :—			
Cambridge Chronicle Company	$59 40		
Cotton & Gould	42 50		
Thorp & Martin Company	169 80		
Wyckoff, Seamans & Benedict	3 50		
		275 20	
Sundries		14 92	
Total, Offices Expenses		$6,364 32	
For Pumping Station :—			
Salaries :—			
Engineer, E. I. Harris	$1,820 06		
Assistant engineer, W. H. Blaisdell	1,057 14		
Laborers, as per pay-rolls	5,122 28		
		7,999 48	
Book, Thorp & Martin Co.		10 50	
Carpentry, E. W. Boynton & Co.		68 45	
Cement, lumber, etc., Geo. W. Gale Lumber Co.		5 60	
Copper tube, National Pipe Bending Co.		277 50	
Door linings, Barbour-Stockwell Co.		22 75	
Electrical work, F. Bryant & Co.		33 33	
Engine and boiler supplies :—			
American Steam Gauge Company	$9 25		
Geo. F Blake Manufacturing Co.	17 23		
Butcher Polish Company	8 15		
A. W. Chesterton	99 69		
Grundy Brass Works	40 53		
Keystone Lubricating Company	83 52		
W. A. Morrison	26 40		
Scalesolvent Company	80 00		
Alden Speare's Sons Company	54 25		
Starr Brass Manufacturing Company	13 20		
Sundry persons	8 50		
The Mason Regulator Company	19 25		
Walworth Manufacturing Company	57 75		
		517 72	
Expressage :—			
Hatch & Co.	$10 59		
Sundry persons	1 25		
		11 84	
Amounts carried forward		$8,947 17	$64,500 00

WATER WORKS, MAINTENANCE, GENERAL ACCOUNT — Continued.

Amounts brought forward		$8,947 17	$64,500 00
For fuel:—			
Baker-Hunnewell Company	$1,258 53		
Coleman Brothers	1,220 35		
Garfield & Proctor Company	4,049 42		
Wellington-Wild Coal Company	4,526 51		
		11,054 81	
Hardware, tools, repairs and supplies:—			
Jos. Breck & Sons	$12 00		
Brock Brothers	5 61		
Burditt & Bynner	31 66		
Chandler & Farquhar	27 96		
James Maitland	6 67		
Sundry persons	6 96		
James H. Wyeth & Co.	12 23		
		103 09	
Heating apparatus repairs:—			
Greene & Co.		13 00	
Hose, etc., Boston Woven Hose Co.		10 65	
Oil stove, Standard Oil Company		6 98	
Oil:—			
Reynolds Oil Company	$1 50		
Standard Oil Company	10 25		
W. A. Wood & Co.	106 40		
		118 15	
Painting, Chas. A. Sawyer		25 95	
Plumbing, Levi Hawkes		63 47	
Repairing roof, Briggs Brothers		105 00	
Sundries		1 86	
Telephone rent and tolls		259 35	
Total expenses, Pumping Station		$20,709 48	
For Stony Brook Reservoir:—			
Salary of Gateman, Silas Baxter		$792 86	
Advertising, Waltham Publishing Company		5 30	
Clearing cess-pools, etc., J. Totten & Sons		152 00	
Cutting hay, W. E. Kingsbury		25 00	
Fuel, lime, etc., G. F. Frost		14 25	
Hardware, tools and supplies:—			
J. A. Higgins		22 04	
Hay, grain, etc.:—			
F. M. Keefe	$9 20		
Geo. B. Pope & Co.	28 40		
		37 60	
Horse shoeing, Thos. Evans		17 83	
Labor, Albert Baxter		21 75	
Manure, A. K. Brotche		6 00	
Painting signs, Albert M. Ryan		14 35	
Post, C. L. Keefe		20 00	
Professional services, A. Greenwood, M. D.		200 00	
Sundries		8 05	
Teaming		16 65	
Telephone, rent and tolls		104 22	
Amounts carried forward		$1,457 90	$64,500 00

WATER WORKS, MAINTENANCE, GENERAL ACCOUNT — Concluded.

Amounts brought forward . . .	$1,457 90	$64,500 00
For wagon repairs, Thos. Evans .	20 00	
Water rates, Waltham Water Works	14 00	
Wire	15 68	
Total expenses, Stony Brook Reservoir	$1,507 58	
SUMMARY: EXPENDED.		
For General Account	$35,604 88	
Offices Expenses	6,364 32	
Pumping Station	20,709 48	
Stony Brook Reservoir	1,507 58	
Total		64,186 26
Balance unexpended . .		$313 74

WATER WORKS.

MAINTENANCE, RENT OF OFFICES.

Appropriation		$3,200 00
EXPENDED.		
For rent of offices and shop:—		
City Buildings Department . .	$3,200 00	
Total		$3,200 00

WATER WORKS.

INTEREST ON WATER LOAN.

Appropriation		$128,639 00
RECEIVED.		
For accrued interest	$61 25	
EXPENDED.		
For interest on the water debt . .	127,179 00	
Total		127,179 00
Balance unexpended . . .		$1,460 00

WATER WORKS.

RATES, FINES, ETC.

RECEIVED.		
From sundry persons, for rates, fines, etc.		$328,513 52
EXPENDED.		
For interest on water debt . . .	$127,117 75	
Deficit for 1898 and 1899	3,766 49	
Maintenance	64,303 53	
Abatement of rates	4,959 20	
Abatement of supplies	171 42	
Refund of rates	2,941 95	
Supplies	164 06	
Sinking Fund requirements . . .	125,089 12	
Total		$328,513 52

WATER WORKS, RATES, FINES, ETC.— Concluded.

Abatements.

Appropriation	$5,000 00
EXPENDED.	
For abatements allowed on water rates	4,959 20
Balance unexpended	$40 80

Refunds.

Appropriation	$3,000 00
EXPENDED.	
For refund on water rates	2,941 95
Balance unexpended	$58 05

WATER WORKS.

SINKING FUND.

Appropriation	$125,089 12
EXPENDED.	
Paid to Trustees of Sinking Fund of Water Works	$125,089 12

WATER WORKS.

SUPPLIES.

Appropriation			$9,300 00
RECEIVED.			
For supply pipes, etc.		$5,575 67	
EXPENDED.			
For labor, as per pay-rolls		2,092 50	
Expressage, Dodge Express Company		50	
Pipe and fittings:—			
Chapman Valve Manufacturing Co.	$304 45		
Walworth Manufacturing Company	3,342 28		
		3,646 73	
Total			5,739 73
Balance unexpended			$3,560 27

WATER WORKS.

SUPPLIES.

Abatements.

Appropriation	$200 00
EXPENDED.	
For abatement of supply bills	171 42
Balance unexpended	$28 58

CAMBRIDGE WATER WORKS.

In account with the City of Cambridge for the year ending November 30, 1900.

RECEIPTS AND EXPENDITURES

Balance to the credit of Construction Account	$2,693 12	Expended for	
Received from sale of bonds	30,000 00	General Construction	$16,999 60
Other revenue on Construction Accounts	2,022 90	Fresh Pond Reservoir	55 25
Maintenance account:—		Hobbs Brook Reservoir	3,085 65
General revenue	3,143 98	Maintenance:—	
Rates, fines, etc	328,513 52	General	64,186 26
Supplies	5,575 67	Rent	3,200 00
		Interest	127,179 00
		Sinking Fund	125,089 12
		Rates, fines, etc., abatements	4,959 20
		Rates, fines, etc., refunds	2,941 95
		Supplies, abatements	171 42
		Supplies	5,739 73
		Deficit for 1898	3,526 22
		Deficit for 1899	240 27
		Balance to the credit of Construction Account	14,575 52
	$371,949 19		$371,949 19

RECAPITULATION.

City Department Accounts.	Receipts.	Appropriations.	Expended.	Balances Unexpended.
Assessors' Department		$13,500 00	$13,498 95	$1 05
Auditing Department		3,600 00	3,571 13	28 87
Bridge Department	$492 35	17,725 00	17,717 10	7 90
Cambridge Bridge	50 00	*104,782 86	57,652 84	47,130 02
Cemetery Department	16,155 07	18,000 00	17,924 19	75 81
" " Filling Low Lands		*7,000 00	3,679 15	3,320 85
City Clerk Department	3,003 70	7,850 00	7,814 32	35 68
Classified Index		800 00	424 71	375 29
Printing Town Records		802 50	800 00	2 50
Russell Memorial Volume		56 50	3 75	52 75
City Messenger Department		2,6 0 00	2,562 75	37 25
Civil Service Department		250 00	249 60	40
Clerk of Committees Department		4,000 00	3,970 47	29 53
Contingent Fund	2,924 01	26,119 01	25,944 42	174 59
Election Expenses:—				
City Clerk		5,350 00	5,333 55	16 45
Registrars of Voters		3,600 00	3,464 30	135 70
Superintendent of Public Buildings		1,400 00	1,398 71	1 29
Electrical Department:—				
Lamps	3 00	72,000 00	71,998 78	1 22
Wires	315 96	10,600 00	10,575 99	24 01
Engineering Department		11,000 00	10,909 61	90 39
Assessors' Plans		300 00	278 18	21 82
Executive Department		5,100 00	5,092 46	7 54
Mayor's Contingent Fund		500 00	171 02	328 98
Fire Department	100 00	90,400 00	90,362 64	37 36
Health Department		20,000 00	19,995 57	4 43
Temporary Hospital	172 52	7,250 00	7,249 89	11
Inspection of Milk and Vinegar	149 00	1,500 00	1,499 37	63
Inspection of Provisions, etc		800 00	798 05	1 95
Interest	9,705 36	150,100 00	150,015 96	84 04
Land Damages		*22,652 50	15,752 94	6,899 56
Law Department	500 00	5,050 00	5,038 59	11 41
Overseers of the Poor Department				
City Home	748 97	21,750 00	21,624 69	125 31
Farm	5,082 43	5,300 00	4,963 57	336 43
House Offal	7,322 05	26,100 00	26,080 54	19 46
Outside aid	3,141 30	52,000 00	51,986 02	13 98
Salary of City Physician		1,500 00	1,500 00	
Park Department:—				
Construction and Lands	1,983 35	*127,581 70	84,988 52	42,593 18
Maintenance	1,491 90	21,469 07	21,467 53	1 54
Interest	121 29	42,400 00	41,900 00	500 00
Sinking Fund		17,500 00	17,500 00	
Plumbers' Examiners Department	35 50	115 00	115 00	
Police Department	6,064 38	123,800 00	123,774 68	25 32
Public Library:—				
Current Expenses	5,177 59	19,000 00	18,998 62	1 38
East Cambridge Branch		1,270 00	1,268 84	1 16
Public Property:—				
City Buildings, Care and Repairs	6,635 82	19,500 00	19 407 56	92 44
Furnishing Latin Schoolhouse		*1,840 04	1,735 08	104 96
Incidentals		5,450 00	5,446 70	3 30
Land for Schoolhouse, Ward 1		*13,000 00	12,800 00	200 00
New Schoolhouse, Ward 1		*80,000 00	15 47	79,984 53
Rebuilding Harvard Schoolhouse		*23,234 52	23,204 98	29 54
Rifle Range		200 00	154 05	45 95
Schoolhouses, Care and Repairs	5 00	75,000 00	74,996 54	3 46
Wellington, Gore and Felton Schools		*35,500 00	30,096 95	5,403 05
School Department:—				
Care of Truants		1,850 00	1,704 20	145 80
Flags		250 00	202 00	48 00
Incidentals		1 600 00	1,598 96	1 04
Salaries	5,699 48	333,200 00	333,191 34	8 66
Text-Books and Supplies	403 42	19,000 00	18,998 90	1 10
Vacation Schools		2,000 00	1,996 11	3 89
Sealer of Weights and Measures	498 00	1,700 00	1,694 97	5 03
Sewer Department:—				
Improved Sewerage		*99,010 76	73,619 11	25,391 65
Construction, General	9,250 89	21,000 00	15,206 10	5,793 90
Maintenance	197 02	20,000 00	19,755 90	244 10
Amounts carried forward	$87,429 36	$1,827,809 46	$1,607,741 92	$220,067 54

* Appropriation provided for by a Loan.

RECAPITULATION — Concluded.

City Department Accounts.	Receipts.	Appropriations.	Expended.	Balances Unexpended.
Amounts brought forward	$87,429 36	$1,827,809 46	$1,607,741 92	$220,067 54
Sinking Fund:—				
Cambridge Bridge		625 00	625 00	
Clay Lands		4,850 00	4,850 00	
General		119,509 00	119,509 00	
Harvard Bridge		8,000 00	8,000 00	
Improved Sewerage		840 00	840 00	
State Aid	16,529 82	25,500 00	25,413 88	86 12
Stationery and Printing	982 17	3,025 00	3,021 32	3 68
Street Department:—				
Bridges		2,500 00	2,462 28	37 72
Cleaning Streets		34,500 00	34,499 79	21
Collection of Ashes		28,000 00	27,999 94	06
Construction, Green Street		900 00	899 97	03
" Inman Court		1,100 00	465 64	634 36
" Pleasant Street		2,347 50		2,347 50
Maintenance	2,776 04	80,000 00	79,999 77	23
New Streets, Clay Land District		2,093 16	1,624 43	468 73
Paving (Edgestones and Sidewalks)	12,210 92	25,000 00	24,998 42	1 58
Paving (Crossings, Repairs, etc.)		†10,000 00	9,999 72	28
Rebuilding Streets:—				
Cambridge Street		†18,000 00	17,998 27	1 73
Inman Street	1,200 00	1,200 00	1,200 00	
Pearl Street and Harvard Square	5,740 20	†33,253 40	31,325 19	1,928 21
Portland Street		†22,486 80	22,486 80	
Watering Streets	17,358 71	26,000 00	26,000 00	
Treasury Department	2,634 78	15,500 00	15,478 14	21 86
	$146,862 00	$2,293,039 32	$2,067,439 48	$225,599 84

† Appropriation provided for by a Street Railway Tax.

Water Department Accounts.	Receipts.	Appropriations.	Expended.	Balances Unexpended
Water Works Department:—				
Construction (General Account)	$2,022 90	*$20,000 00	$16,999 60	$3,000 40
Construction (Fresh Pond Reservoir)		*500 00	55 25	444 75
Construction (Hobbs Brook Reservoir)		*9,600 00	2,585 65	7,014 35
Services of City Solicitor		*500 00	500 00	
Maintenance (General Account)	3,082 73	64,500 00	64,186 26	313 74
Rent of Offices		3,200 00	3,200 00	
Interest on Water Loan	61 25	128,639 00	127,179 00	1,460 00
Rates, Fines, etc.	328,513 52			
Rates, Fines, etc. (Abatements)		5,000 00	4,959 20	40 80
Rates, Fines, etc. (Refunds)		3,000 00	2,941 95	58 05
Sinking Funds		125,089 12	125,089 12	
Supplies	5,575 67	9,300 00	5,739 73	3,560 27
Supplies (Abatements)		200 00	171 42	28 58
	$339,256 07	$369,528 12	$353,607 18	$15,920 94

* Appropriation provided for by a Loan.

CITY TREASURY.

DR.

To Cash in Treasury December 1, 1899	$172,045 56	
Receipts as shown in the foregoing Statement (City Department Accounts)	146,862 00	
Receipts as shown in the foregoing Statement (Water Department Accounts)	339,256 07	
Amount received from Collector of Taxes for 1900	1,337,274 20	
Amount received from Collector of Taxes for other years	268,760 24	
Betterments	2,273 62	
Cemetery Fund	2,712 00	
Commissioners of Sinking Funds	100,000 00	
Loan, Cambridge Bridge	100,000 00	
Loan, Cemetery	7,000 00	
Loan, City	36,000 00	
Loan, Parks	100,000 00	
Loan, Sewer	100,000 00	
Loan, Street	21,000 00	
Loan, Temporary	600,000 00	
Loan, Water	30,000 00	
Park Betterment Lien	5,426 90	
Premium Account	31,658 30	
Tax, Corporation	94,967 42	
Tax, Lien Account	8,370 55	
Tax, National Bank	16,760 44	
Tax, Street Railway	106,515 94	
		$3,626,883 24

CR.

By Amount expended as shown in the foregoing Statement (City Department Accounts)	$2,067,439 48	
Amount expended as shown in the foregoing Statement (Water Department Accounts)	353,607 18	
Abatements (Taxes)	33,005 90	
Cemetery Fund	2,712 00	
Loan, High School	100,000 00	
Loan, Temporary	600,000 00	
Park Betterment Lien	10 41	
Tax Sale Surplus	30 00	
Tax, County	85,997 56	
Tax, Metropolitan Sewer	73,018 92	
Tax, National Bank	7,167 54	
Tax, State	48,195 00	
		$3,371,183 99
Balance in Treasury		$255,699 25

SCHEDULE OF REAL ESTATE OWNED BY THE CITY OF CAMBRIDGE, AS SHOWN ON THE ASSESSORS' BOOKS, NOVEMBER 30, 1900.

Cambridge Cemetery :—			
60 1-100 acres of land		$60,000 00	
1 house		2,500 00	
			$62,500 00
Cambridge Public Library :—			
141,666 feet of land		77,000 00	
Library Building		116,000 00	
			193,000 00
Fire Department :—			
Hook and Ladder No. 2, Portland St.	$12,000 00		
11,931 feet of land	3,000 00		
		15,000 00	
Engine House No. 5, junction Cambridge and Hampshire Streets	10,000 00		
6,000 feet of land	5,000 00		
		15,000 00	
Engine House, south side Main, corner Deacon Streets	12,000 00		
9,400 feet of land	7,300 00		
		19,300 00	
Engine House, Massachusetts Avenue	23,000 00		
9,532 feet of land	6,000 00		
		29,000 00	
Engine House No. 4, and stable, Massachusetts Avenue	5,300 00		
6,316 feet of land	3,700 00		
		9,000 00	
Engine House No. 6, River Street	12,000 00		
4,994 feet of land	2,500 00		
		14,500 00	
Engine House, east side Lexington Avenue	16,000 00		
15,262 feet of land	4,000 00		
		20,000 00	
Engine House, Massachusetts Ave.	26,000 00		
10,000 feet of land	8,000 00		
		34.000 00	
Engine House, Third Street	17,500 00		
10,100 feet of land	5,500 00		
		23,000 00	
			178,800 00
Overseers of the Poor Department :—			
14 242-1000 acres of land		21,000 00	
City Home buildings		25,000 00	
			46,000 00
Public buildings and lands :—			
City Hall, Massachusetts Avenue	200,000 00		
47,878 feet of land	72,000 00		
		272,000 00	
Ward One Building, Mt. Auburn St.	60,000 00		
16,153 feet of land	16,000 00		
		76,000 00	
Amounts carried forward		$348,000 00	$480,300 00

Amounts brought forward . . .		$348,000 00	$480,300 00
Public buildings and lands:—			
Ward Four Building, Green Street .	50,000 00		
13,028 feet of land	10,500 00		
		60,500 00	
Police Station, Fourth Street . .	20,000 00		
4,220 feet of land	2,100 00		
		22,100 00	
Street Department:—			
Stables, sheds and scales, Hampshire Street	16,000 00		
72,661 feet of land	30,000 00		
		46,000 00	
City Stables, west side Raymond St. .	27,000 00		
272,670 feet of land	27,000 00		
		54,000 00	
Park Department:—			
Park, Boylston, Mt. Auburn and Winthrop Streets, 11,565 feet of land .		17,000 00	
Park, south side Broadway, 107,181 feet of land		54,000 00	
Park, Hastings Square, 30,000 feet of land		9,000 00	
Park, Dana Square, 33,531 feet of land		12,000 00	
Park, Pleasant Street, 1,372 feet of land		1,000 00	
Park, Pleasant and River Streets, 1,569 feet of land		1,200 00	
Fort Washington, east side Waverly Street, 42,123 feet of land . .		8,000 00	
Mill Pond Property, north side River Street, west side Blackstone Street, 72,700 feet		29,000 00	
Lot east side Portland Street, 18,011 ft.		5,500 00	
Lot east side Norfolk Street, 39,600 ft.		12,000 00	
38 lots, Western Avenue, Putnam Avenue, Bancroft, Gilmore and Montague Streets, 119,085 feet .		27,000 00	
Lot, Second Street, 26,357 feet . .		5,200 00	
Lot west side Reed Street, 1,500 feet		100 00	
Lot, Walden Street, 16,365 feet .		1,600 00	
Flats south side Main Street, 86,500 ft.		7,600 00	
Common, Garden St., Massachusetts Ave. and Waterhouse St., 370,785 ft.		300,000 00	
Park, Massachusetts Ave., Kirkland and Cambridge Sts., 33,357 feet .		66,000 00	
Park, Massachusetts Avenue and Harvard Square, 23,074 feet . .		46,000 00	
Park, Massachusetts Ave. and Holmes Place, 20,956 feet . . .			
Park, Rindge Avenue and Groveland Street, 501,729 feet . . .		10,000 00	
Lot west side Blackstone Street, Western Ave. and Ampere St., 19,934 ft.		5,600 00	
Mt Auburn Street, 60,508 feet . .		9,000 00	
Ward 2, Charles River Parkway 437,256 feet		22,700 00	
Ward 3, Charles River Parkway 359,300 feet		70,000 00	
Ward 4, Charles River Parkway 2,180,889 feet		88,500 00	
Amounts carried forward . .		$1,338,600 00	$480,300 00

Amounts brought forward . . .		$1,338,600 00	$480,300 00
Park Department:—			
Ward 2, Cambridge Field, Shelter House	$28,000 00		
528,154 feet of land	22,000 00		
		50,000 00	
Building, north side Main and First Street	2,000 00		
5,605 feet of land	5,600 00		
		7,600 00	
Lot, south side Deacon Street, 12,210 ft.		1,000 00	
Triangular lot, Massachusetts Avenue and Arrow Street, 872 feet . .		1,300 00	
Burial ground, Massachusetts Avenue and Garden Street, 85,858 feet .			
Triangular lot, Chauncey and Garden Streets, 3,189 feet		2,000 00	
Buildings and lands, north side Bridge		1,000 00	
			1,401,500 00
			$1,881,800 00

SCHOOLHOUSES AND LANDS.

Ward One.

New Latin School	$225,000 00		
English High School, Broadway .	220,000 00		
154,125 feet of land	84,700 00		
		$529,700 00	
Washington Grammar, Brattle Street	30,000 00		
14,951 feet of land	12,000 00		
		42,000 00	
Corlett Grammar, Holworthy Street	3,000 00		
10,000 feet of land	1,200 00		
		4,200 00	
Manual Training School, Broadway Irving and Felton Streets:—			
Land, 81,128 feet	44,000 00		
Building and appliances . . .	56,000 00		
		100,000 00	
Agassiz Primary, Sacramento Street	18,000 00		
19,689 feet of land	8,000 00		
		26,000 00	
Cushing Primary, Cushing Street .	3,000 00		
14,789 feet of land	1,500 00		
		4,500 00	
Dunster Primary, Concord Avenue .	4,000 00		
10,000 feet of land	3,000 00		
		7,000 00	
Holmes Primary, Hilliard Street .	6,000 00		
11,182 feet of land	5,600 00		
		11,600 00	
Lowell Primary, Lowell Street . .	7,000 00		
12,033 feet of land	3,600 00		
		10,600 00	
Amounts carried forward . ,		$735,600 00	$1,881,800 00

Amounts brought forward . . .		$735,600 00	$1,881,800 00
Riverside Primary, Putnam Avenue .	5,000 00		
11,199 feet of land	3,000 00		
		8,000 00	
Russell School, Larch Street . .	40,000 00		
33,073 feet of land	6,000 00		
		46,000 00	
Ward Two.			
Latin High, Fayette Street . . .	45,000 00		
37,828 feet of land	19,000 00		
		64,000 00	
Old Latin School, Lee Street . .	5,000 00		
10,100 feet of land	5,000 00		
		10,000 00	
Wellington Training, Columbia Street	50,000 00		
18,870 feet of land	6,600 00		
		56,600 00	
Allston Grammar, Boardman Street .	30,000 00		
15,193 feet of land	4,600 00		
		34,600 00	
Harvard Grammar, Inman Street . .	65,000 00		
20,494 feet of land	12,000 00		
		77,000 00	
Bridge Primary, Pioneer Street . .	500 00		
4,646 feet of land	1,400 00		
		1,900 00	
Dana Primary, Centre Street . .	2,000 00		
14,317 feet of land	4,300 00		
		6,300 00	
Felton Primary, Amory Street . .	6,000 00		
15,090 feet of land	4,500 00		
		10,500 00	
Gannett (old) Primary, Columbia Street	2,000 00		
8,803 feet of land	2,600 00		
		4,600 00	
Gannett (new) Primary, Jefferson Street	12,000 00		
15,434 feet of land	3,000 00		
		15,000 00	
Sargent Primary, Broadway . . .	3,000 00		
9,995 feet of land	5,000 00		
		8,000 00	
Stearns Primary, Harvard Street . .	3,000 00		
10,050 feet of land	5,000 00		
		8,000 00	
Parker Primary, south side Broadway .	15,000 00		
12,319 feet of land	7,000 00		
		22,000 00	
Roberts School, Harvard Street . .	48,000 00		
16,400 feet of land	7,200 00		
		55,200 00	
Ward Three.			
Putnam Grammar, Fourth and Otis Streets	$60,000 00		
14,400 feet of land	9,800 00		
		$69,800 00	
Amounts carried forward . .		$1,233,100 00	$1,881,800 00

Amounts brought forward . . .		$1,233,100 00	$1,881,800 00
Thorndike Grammar, Thorndike Street	30,000 00		
10,027 feet of land	4,000 00		
		34,000 00	
Gore Primary, Gore Street . . .	25,000 00		
9,900 feet of land	4,000 00		
		29,000 00	
Lassell Primary, Charles Street . .	8,000 00		
10,000 feet of land	3,000 00		
		11,000 00	
Otis Primary, Otis Street . . .	20,000 00		
8,270 feet of land	4,000 00		
		24,000 00	
Taylor Schoolhouse	36,000 00		
23,592 feet of land	6,000 00		
		42,000 00	
Ward Four.			
Webster Grammar, Upton Street . .	$50,000 00		
25,839 feet of land	9,000 00		
		$59,000 00	
Boardman Primary, Winsor Street .	13,500 00		
10,018 feet of land	4,000 00		
		17,500 00	
Tarbell Primary, Grigg Street . .	7,000 00		
19,500 feet of land	4,900 00		
		11,900 00	
Willard Primary, Lake Street . .	25,000 00		
20,079 feet of land	5,000 00		
		30,000 00	
Morse Schoolhouse, Allston and Brookline Streets	73,000 00		
25,650 feet of feet	7,000 00		
		80,000 00	
Ward Five.			
Peabody Grammar, Linnæan Street .	$27,000 00		
21,813 feet of land	9,800 00		
		36,800 00	
Shepard Grammar, Massachusetts Ave.	20,000 00		
14,755 feet of land	7,000 00		
		27,000 00	
Reed Primary, Reed Street . . .	4,000 00		
12,000 feet of land	1,200 00		
		5,200 00	
Wyman Primary, Rindge Avenue . .	6,000 00		
14,347 feet of land	4,000 00		
		10,000 00	
Sleeper School, Dudley Street . .	29,000 00		
21,284 feet of land	5,000 00		
		34,000 00	
Schoolhouse lot, Norris Street, 25,700 feet		5,000 00	
			$1,689,500 00
Amount carried forward . .			$3,571,300 00

Amount brought forward . . .			$3,571,300 00
Sewer Department:—			
23,707 feet of land, Pilgrim Street .	$5,900 00		
Stables, shed, house and building .	4,100 00		
		$10,000 00	
Water Works:—			
House, shop and stables, south side Concord Avenue	4,000 00		
27 33-100 acres of land . . .	16,700 00		
		20,700 00	
Land, south side Concord Avenue, 5-8 acre		300 00	
Land, east side Woodlawn Avenue, 15,735 feet		800 00	
Lot, rear of Grove Street, 272,800 feet		2,000 00	
Lot, south side Concord Avenue, 99,000 feet		1,000 00	
Land, south side Concord Avenue, 11,220 feet		100 00	
Two lots, south side Concord Avenue, 219,400 feet		2,200 00	
Gate-house lot, Concord Avenue, 43,560 feet		400 00	
Lot, south side Concord Avenue, 24,100 feet		300 00	
Fresh Pond Lane, 11 1-4 acres of land		11,000 00	
Kingsley Park, Fresh Pond Lane, 309,336 feet		8,000 00	
Lot, rear Fresh Pond Lane, 364,608 ft.		3,500 00	
Lot, Woodlawn Avenue, 107,616 feet,		8,000 00	
Lot, Woodlawn Avenue, 26,989 feet .		1,600 00	
Lot, rear Fresh Pond Lane, 239,541 ft.		5,000 00	
Lot, Woodlawn Avenue, 91,040 feet .		2,000 00	
Lot, Holworthy Street, 18,480 feet .			
Lot, south side Huron Avenue, 22,348 feet		700 00	
Lot, east side Cushing Street, 41,053 feet		800 00	
Lot, Cushing Street, corner Woodlawn Avenue, 95.482 feet. . . .		2,000 00	
Lot, Woodlawn Avenue, 24,096 feet .		1,900 00	
Lot, east side Cushing Street, 639,550 feet		4,000 00	
Two lots, near Fresh Pond and Adams Place, 110,891 feet		1,000 00	
Land, Adams Place, 160,597 feet .		1,400 00	
Lot, Woodlawn Avenue, 25,216 feet of land		1,200 00	
Land, Woodlawn Avenue, 133,336 feet		13,700 00	
Gravel pit, south side Concord Avenue, 397,417 feet		3,000 00	
190,500 feet of land, Huron Avenue .		4,300 00	
Lot, south side Huron Avenue, 91,112 feet		500 00	
Near Concord Avenue, 4 1-2 acres .		5,000 00	
Adams Place, 419,222 feet of land .		10,000 00	
South side Concord Avenue, 10,805 feet of land		500 00	
South side Concord Avenue, 32,425 feet of land		700 00	
Amounts carried forward . ,		$127,600 00	$3,571,300 00

Amounts brought forward . . .		$127,600 00	$3,571,300 00
Water Works :—			
South side Concord Avenue, 62,000 feet of land		1,200 00	
Lot, Huron Avenue, 1 3-4 acres . .		1,000 00	
Concord Avenue, 294,000 feet of land		3,000 00	
Tudor Park, near Concord Avenue, 57,312 feet of land			
Pumping Station, Worthington Street	50,000 00		
Dwelling house	2,000 00		
90,414 feet of land	18,000 00		
		70,000 00	
Land, south side Cambridge Street, 16,000 feet		8,800 00	
One house and stable, Lexington Avenue, Lake View Avenue, and Vassal Lane	14,300 00		
88,077 feet of land	11,100 00		
		25,400 00	
Reservoir, Reservoir Street, 91,003 feet of land		27,000 00	
Two houses, stable and sheds and building, south side Auburn Street,	5,700 00		
33,847 feet of land	6,600 00		
		12,300 00	
Lot, Grove Street, 150.000 feet . .		1,500 00	
Buildings, Grove Street . . .	5,000 00		
519,000 feet of land	6,000 00		
		11,000 00	
Lot, Fresh Pond Lane, corner Huron Avenue, 46,479 feet		6,900 00	
Lot, Fresh Pond Lane, 211,835 feet .		20,000 00	
			315,700 00
Total			$3,887,000 00

EXEMPTED PROPERTY.

The following is a schedule of property used for religious, charitable and educational purposes, and exempt from taxation by law, not including that owned by the City of Cambridge, as shown on the Assessors' Books, November 30, 1900.

Ward One.

Christ Church, Episcopal, Garden St. :—		
Church and Parish House . . .	$22,000 00	
22,701 feet of land	22,000 00	
		$44,000 00
First Parish Church, Unitarian :—		
Church, Massachusetts Avenue .	20,000 00	
14,831 feet of land	29,000 00	
		49,000 00
Cambridge Social Union :—		
Personal property	1,500 00	
House, No. 42 Brattle Street . .	5,000 00	
13-22 of hall	8,500 00	
17,030 feet of land	9,100 00	
		24,100 00
Epworth Methodist Episcopal Church :—		
Church, Massachusetts Avenue . .	80,000 00	
11,248 feet of land	10,000 00	
		90,000 00
Amount carried forward . .		$207,100 00

Amount brought forward . . .		$207,100 00
Old Cambridge Baptist Society :—		
Church, Massachusetts Avenue and Harvard Street	80,000 00	
34,573 feet of land	34,000 00	
		114,000 00
Shepard Congregational Society :—		
Church, Garden Street . . .	110,000 00	
34,353 feet of land	34,000 00	
		144,000 00
St. Peter's Roman Catholic Church :—		
Concord Avenue	45,000 00	
33,700 feet of land	10,000 00	
		55,000 00
St. Peter's Parish Hall Corporation :—		
Stores and hall, 70 Concord Avenue .	36,500 00	
11,850 feet	3,500 00	
		40,000 00
St. Paul's Roman Catholic Church :—		
Mount Auburn Street . . .	30,000 00	
11,216 feet of land	14,000 00	
		44,000 00
St. Paul's Catholic School Association :—		
Personal property	1,500 00	
School building	55,000 00	
House, Arrow and Mount Auburn Streets	8,000 00	
32,900 feet of land	24,000 00	
		88,500 00
Cambridge Hospital :—		
Personal property	202,166 51	
Buildings, Mount Auburn Street .	94,000 00	
411,452 feet of land	143,000 00	
		439,166 51
Cambridge Home for Aged People :—		
Personal property	76,831 22	
Building, Mount Auburn Street .	60,000 00	
42,975 feet of land	20,000 00	
		156,831 22
Longfellow Memorial Association :—		
Personal property	17,070 12	
Park, south side Brattle Street, 93,618 feet	56,000 00	
		73,070 12
Episcopal Theological School, Trustees of :—		
Personal property	142,102 48	
Chapel, seminary, dormitories, Brattle and Mason Streets, and Hastings Avenue	310,200 00	
		452,302 48
Avon Home, Mount Auburn Street :—		
Building	22,000 00	
69,470 feet of land	28,000 00	
Personal property	65,329 04	
		115,329 04
Holy Ghost Hospital for Incurables :—		
Building and house, Cambridge Street	56,000 00	
209,126 feet of land	62,000 00	
		118,000 00
Amount carried forward . .		$2,047,299 37

Amount brought forward . . .		$2,047,299 37	
Radcliffe College :—			
Personal property	444,510 48		
Five houses, laboratory, schoolhouse and gymnasiums, Garden, Brattle, Mason and James Streets . .	135,700 00		
116,731 feet of land, including Ward Five property	140,700 00		
		720,910 48	
The Corporation of the New Church Theological School :—			
Personal property	81,092 00		
Two houses and stable, 42–48 Quincy Street	16,000 00		
81,450 feet of land	81,000 00		
		178,092 00	
President and Fellows of Harvard College :—			
Personal property	9,689,246 72		
Dormitories, chapels, laboratories, museums, lecture rooms and houses, including Ward Five property	5,999,800 00		
		15,689,046 72	
Commonwealth of Massachusetts :—			
Metropolitan Park, 29 acres and 397,465 feet		127,800 00	
Jane Wilson (widow of disabled soldier), House, 9 Elmer Street . . .	900 00		
1,275 feet of land	300 00		
		1,200 00	
			$18,764,348 57
Ward Two.			
Baptist Church, Trustees of funds of :—			
Chapel, Hampshire Street , . .	$3,000 00		
2,500 feet of land . . . . ,	800 00		
		$3,800 00	
Broadway Baptist Church :—			
Church, west side Boardman Street .	30,000 00		
11,620 feet of land	8,000 00		
		38,000 00	
Cambridgeport Unitarian Society :—			
Church, north side Austin Street .	18,000 00		
13,116 feet of land	8,000 00		
		26,000 00	
Harvard Street Methodist Episcopal Society :—			
Church, north side Harvard Street .	22,000 00		
10,030 feet of land	8,000 00		
		30,000 00	
St. Paul's African M. E. Church :—			
Church, north side of Hastings Street	7,500 00		
5,386 feet of land	2,000 00		
		9,500 00	
Hope Congregational Church :—			
Church, north side Harvard Street .	8,000 00		
6,000 feet of land	3,000 00		
		11,000 00	
Amounts carried forward . .		$118,300 00	$18,764,348 57

Amounts brought forward . . .		$118,300 00	$18,764,348 57
St. Stephen's Baptist Church Buildings, 187–189 Broadway . .	$500 00		
2,840 feet of land	1,100 00		
		1,600 00	
First Evangelical Congregational Society :—			
Church, west side Prospect Street .	40,000 00		
19,513 feet of land	12,000 00		
		52,000 00	
First Free Baptist Church :—			
Church, north side Harvard Street .	9,000 00		
6,250 feet of land	4,700 00		
		13,700 00	
First Free Baptist Church :—			
Church, north side Hampshire Street	3,000 00		
3,851 feet of land	1,500 00		
		4,500 00	
First Universalist Society of Cambridge :—			
Church, east side Inman Street .	20,000 00		
15,312 feet of land	11,300 00		
		31,300 00	
St. Mary's Parochial School :—			
Church, west side Norfolk, corner Harvard Street	45,000 00		
Girls' School, south side Harvard Street	60,000 00		
Boys' School, east side Essex Street	18,000 00		
Sisters' Home, 50 and 52 Essex Street	7,000 00		
49,928 feet of land	20,000 00		
Theatre, east side Norfolk Street .	15,000 00		
13,032 feet of land	6,500 00		
Gymnasium, east side Prospect Street	35,000 00		
11,370 feet of land . . .	5,600 00		
House, 121 Norfolk Street . .	7,500 00		
7,500 feet of land	2,300 00		
		221,900 00	
First Reformed Presbyterian Church, west side Antrim Street . . .	7,500 00		
5,000 feet of land	2,000 00		
		9,500 00	
St. Bartholomew's Church, west side Columbia Street	6,000 00		
Building	500 00		
5,075 feet of land	1,500 00		
		8,000 00	
First United Presbyterian Church :—			
Church, south side Cambridge Street	6,000 00		
9,173 feet of land	4,600 00		
		10,600 00	
Holy Ghost Hospital for Incurables, Cambridge Street :—			
72,310 feet of land		10,000 00	
			$481,400 00
Ward Three.			
Trinity Methodist Episcopal Church :—			
Church, Cambridge, corner Third Street	$25,000 00		
6,500 feet of land	16,300 00		
		$41,300 00	
Amounts carried forward . .		$41,300 00	$19,245,748 57

Amounts brought forward . . .		$41,300 00	$19,245,748 57
Massachusetts Baptist Convention, Trustee :—			
Church, Cambridge and Fourth Streets	25,000 00		
6,000 feet of land	11,000 00		
		36,000 00	
Church of the Ascension :—			
Church, Third and Thorndike Streets	5,000 00		
4,800 feet of land	4,000 00		
		9,000 00	
Second Universalist Society :—			
Church, Otis Street	16,000 00		
5,950 feet of land	3,500 00		
		19,500 00	
Church of the Sacred Heart :—			
Church, Sixth, Otis and Seventh Streets	70,000 00		
15,400 feet of land	6,200 00		
		76,200 00	
Sacred Heart School Association :—			
St John's Church, east side Fourth Street	5,000 00		
7,005 feet of land	4,200 00		
House and shop, 83 Otis Street .	3,500 00		
5,000 feet of land	4,000 00		
11,000 feet of land on Seventh Street	3,300 00		
		20,000 00	
County of Middlesex :—			
Court House, Third, Otis and Thorndike Streets	208,500 00		
Probate Building	125,000 00		
Registry of Deeds, Second, Otis and Third Streets	55,000 00		
59,572 feet of land	60,000 00		
		448,500 00	
Registry of Deeds (new) :—			
Cambridge, Otis, Second and Third Streets	376,000 00		
59,380 feet of land	60,000 00		
Law Library	50,000 00		
		486,000 00	
House of Correction, jail and shops, Thorndike, Third, Spring and Second Streets	425,000 00		
59,880 feet of land	30,000 00		
		455,000 00	
St. John's Literary Institute :—			
Hall and stores, Cambridge Street, ⅔ value	20,000 00		
½ of 6,300 feet of land . . .	4,700 00		
Cash assets	3,606 92		
		28,306 92	
			$1,619,806 92
Ward Four.			
Cambridge Young Men's Christian Association :—			
Personal property	$16,954 00		
New building, Massachusetts Avenue	107,000 00		
24,145 feet of land	12,000 00		
		$135,954 00	
Amounts carried forward . .		$135,954 00	$20,865,555 49

Amounts brought forward . . .		$135,954 00	$20,865,555 49
Immanuel Baptist Church :—			
Church, east side Magazine Street .	25,000 00		
11,250 feet of land	3,000 00		
		28,000 00	
First Baptist Society :—			
Church, Central Square . . .	80,000 00		
21,400 feet of land	20,000 00		
		100,000 00	
First Church of the Evangelical Association of North America :—			
Church, 44 William Street . . .	5,000 00		
6,750 feet of land	2,700 00		
		7,700 00	
First Swedish Baptist Church of Cambridge :—			
One house, 77 Columbia Street . .	2,000 00		
2,765 feet of land	1,200 00		
		3,200 00	
Grace Methodist Episcopal Church :—			
Church, east side Magazine Street .	15,000 00		
7,750 feet of land	5,000 00		
		20,000 00	
Massachusetts Baptist Convention— Union Baptist Church :—			
Church, 874 Main Street . . .	10,000 00		
3,900 feet of land	3,900 00		
		13,900 00	
Pilgrim Congregation Church :—			
Church, west side Magazine Street .	30,000 00		
8,885 feet of land	7,500 00		
1,800 feet of land	1,200 00		
		38,700 00	
Baptist Home, 80 Chestnut Street, and 308 Brookline Street, one house and stable	11,500 00		
Personal property	3,312 52		
21,300 feet of land	10,000 00		
		24,812 52	
The Lamson Home, 322 Brookline Street, one house	5,000 00		
5,000 feet of land	2,000 00		
Personal property	8,255 44		
		15,255 44	
Mount Olive Baptist Church and Willard Welsh, for tax :—			
Building, State Street . . .	1,500 00		
5,000 feet of land	2,500 00		
		4,000 00	
Mount Olive Baptist Church, south side State Street, Church unfinished .	5,000 00		
5,000 feet of land	2,500 00		
		7,500 00	
Protestant Episcopal Church, Trustees of Donations to :—			
Church, south side Massachusetts Avenue (St. Peter's) . . .	10,000 00		
9,229 feet of land	9,200 00		
		19,200 00	
East End Union Mission :—			
Church, west side Burleigh Street on Rogers' land		3,500 00	
Amounts carried forward . .		$421,721 96	$20,865,555 49

Amounts brought forward . . .		$421,721 96	$20,865,555 49
Rush African M. E. Zion Church:—			
Church, south side School Street .	6,000 00		
2,760 feet of land	1,100 00		
		7,100 00	
St. Philip's Church, Episcopal:—			
Church, north side Allston Street .	3,000 00		
4,646 feet of land	1,200 00		
		4,200 00	
Wood Memorial Church, Congregational:—			
Church, west side Columbia, corner Austin Street	30,000 00		
7,500 feet of land	4,000 00		
		34,000 00	
Prospect Union Association:—			
Personal property	11,583 37		
Building, 744 Massachusetts Avenue	4,700 00		
11,449 feet of land	9,200 00		
		25,483 37	
			$492,505 33
Ward Five.			
Catholic Cemetery, Rindge Avenue, 304,014 feet of land		$30,000 00	
North Avenue Congregational Society:—			
Church, Massachusetts Avenue . .	32,000 00		
13,430 feet of land	8,000 00		
		40,000 00	
Third Universalist Society:—			
Church, Massachusetts Avenue . .	30,000 00		
14,880 feet of land	9,000 00		
		39,000 00	
St. James Episcopal Society:—			
Church and chapel, Massachusetts Avenue and Beech Street . .	75,000 00		
21,207 feet of land (cemetery lot included)	12,700 00		
		87,700 00	
Abbott, Edward, Trustee for, west side Beech Street:—			
Lot, 7,965 feet of land . . .		3,200 00	
North Avenue Baptist Society:—			
Church, Massachusetts Avenue . .	55,000 00		
38,525 feet of land	19,000 00		
		74,000 00	
Williams, John J., south side Rindge Avenue:—			
Schoolhouse	40,000 00		
20,220 feet of land	4,000 00		
		44,000 00	
Marist Fathers of Boston, French Roman Catholic Church:—			
Church, north side Harvey Street .	40,000 00		
14,645 feet of land	3,000 00		
		43,000 00	
Weymouth, Harrison G. O (disabled soldier):—			
Orchard Street, 4,800 feet of land .		1,900 00	
			362,800 00
			$21,720,860 82

SCHEDULE OF CITY PROPERTY

BRIDGE DEPARTMENT.

Bridge.	Description of Buildings.	Value of Buildings.	Total.
Prison Point	House occupied by Drawtender...	$1,200 00	
Craigie	House occupied by Drawtender...	1,200 00	
"	Engine house and sheds	500 00	
"	Houses on pier, Cambridge end...	800 00	
"	Boiler and engine for moving draw	200 00	
Harvard	House on pier and shed	800 00	
Brookline Street	Houses	600 00	
River Street	Two small houses	200 00	
Western Avenue	One small house	100 00	
North Harvard Street.	Two small houses	150 00	$5,750 00

CAMBRIDGE CEMETERY.

60 1-10 acres of land	$60,000 00	
1 house	2,500 00	
Personal property	2,000 00	
		$64,500 00

Purchased in 1853 and 1885.

ELECTRICAL DEPARTMENT.

LAMPS.

279 lamp posts in streets valued at $10.00 each	$2,790 00	
Office furniture	131 00	
Stock on hand in City Hall	190 00	
Stock on hand in Central Square building	285 00	
Horse and team	440 00	
		$3,836 00

WIRES.

Fire alarm apparatus and machinery	$13,220 00	
Fire alarm supply and reserve apparatus	915 00	
Fire alarm circuit wires and cross-arms (cost)	1,990 00	
95 fire alarm boxes	5,600 00	
Police signal apparatus and machinery	3,020 00	
Police signal supply and reserve apparatus	155 00	
Police signal circuit wires and cross-arms (cost)	2,320 00	
Police signal 1-10 mile cable	165 00	
80 police boxes	11,850 00	
Testing instruments	465 00	
Tools	550 00	
Furnishings	450 00	
Stock on hand	875 00	
Old and disused apparatus (depreciated value)	600 00	
Miscellaneous supplies	130 00	
Horses and teams	260 00	
Building in Belmont school-yard	400 00	
		$42,965 00

ENGINEERING DEPARTMENT.

PERSONAL PROPERTY.

4 transits	$400 00
2 levels	150 00
Miscellaneous small tools	100 00
Drawing instruments and stock	75 00
Furniture	200 00
Typewriting machine	75 00
Plans, 5750	25,000 00
Total	$26,000 00

FIRE DEPARTMENT.

REAL ESTATE.

Location.	Feet of Land.	Purchase of Land.	Erection of Building.	Value of Land.	Value of Building.
Engine House No, 2, } 384 Mass. Ave. }	.....	.....	.....	.....	.....
Ladder House No. 3, } 394 " " }	10,000	.....	1893	$8,000	$26,000
Engine House No. 3, 35 Third St.....	10,100	1895	1895	5,500	17,500
Engine House No. 4, 2029 Mass. Ave....	9,532	1896	1896	6,000	23,000
Engine House No. 5, Inman Square. ...	6,000	1874	1874	5,000	10,000
Engine House No. 6, 176 River St.....	4,994	1890	1890	2,500	12,000
Engine House No. 7, 350 Main St.....	9,400	.....	1894-1895	7,300	12,000
Chemical Engine House No. 2, 167 Lexington Ave.....	15,262	1893	1893-1894	4,000	16,000
Ladder House No. 2, 276 Portland St.. .	11,931	.....	1887	3,000	12,000
				$41,300	$128,500

PERSONAL PROPERTY.

Apparatus	$59,800 25	
Bedding	1,534 25	
Furniture	3,596 90	
Horses and harnesses	11,201 00	
Tools	1,428 85	
Fire hats, badges, buttons, etc.	948 25	
		$78,509 50

BOARD OF HEALTH.

PERSONAL PROPERTY.

Temporary hospital furnishings	$900 00	
Laboratory furnishings	268 00	
Office furniture	150 00	
Typewriter	100 00	
1 horse	165 00	
1 ambulance	585 00	
1 Beverly wagon	175 00	
1 van	100 00	
2 sets harness	50 00	
Blankets and horse covers	20 00	
16 disinfecting lamps	100 00	
		$2,613 00

INSPECTION OF MILK AND VINEGAR DEPARTMENT.

PERSONAL PROPERTY.

12 platinum milk dishes	$175 00	
1 balance	15 00	
1 drying oven	6 00	
1 Babcock tester	3 00	
Chemicals, glassware and chemical apparatus	15 00	
		$214 00

CITY HOME ESTATE.

Thirty-two (32) acres land bought Aug. 7, 1849.

Present City Home completed and placed under the care of the Overseers of the Poor, April 3, 1851.

Land cost	$12,000 00	
City Home cost	32,970 69	
Fences, furniture, etc., cost	3,000 00	
Total	$47,970 69	
Hospital cottage on City Home grounds built in 1886 at a cost of	$1,830 00	
Two-story brick building erected 1888 cost	5,600 00	
Land situated in Cambridge	14 242-1,000 acres	
" " " Somerville	7 954-1,000 "	
" " " Arlington	100-1,000 "	
Lands (saleable) on plan of April 10, 1884:— 30 lots of 5,000 feet each (in Somerville)	3 443-1,000 "	
Total acres of land	25 739-1,000 "	

About seven acres of City Home land lying south of Broadway in West Somerville has been sold for house lots. The remaining lots (30) contain 150,000 square feet, and have been held at a valuation of four cents per square foot, but are probably worth much more at the present time.

The valuation of the City Home real estate by the assessors is—

$25,000 00	for the buildings and
15,000 00	" land
Total $40,000 00	

INVENTORY

of personal property at the City Home, Dec. 1, 1899:—

Book-keeping account books, stationery, etc.	$125 00	
Drugs, medicines and hospital supplies	325 00	
Dry goods, clothing, bedding, etc.	3,600 00	
Farm and stable: horses, cows, pigs, fowls, tools, wagons, fertilizers, produce, etc.	4,100 00	
Fuel	1,200 00	
House supplies, furniture, carpets, etc	3 000 00	
Ledge: steam boiler, steam drill and tools	1,000 00	
Offal Department: wagons, pungs, horses, harnesses, etc.	5,300 00	
Outside aid: delivery wagons, groceries, etc.	400 00	
Provisions: groceries, spices, etc.	300 00	
Repairs: tools, lumber, lime, cement, hardware, etc.	400 00	
		$19,750 00

PARK DEPARTMENT.

REAL ESTATE.

	Feet of Land.	Rate per Foot.	Value.
River Parkway:			
Section A	395,174	$1 00	$395,174 00
" B	859,000	2 00	1,718,000 00
" C	583,082	25 cts.	145,770 50
" D	1,668,709	cost	174,445 18
" F	605,084	cost	88,761 69
" G	699,948	60 cts.	419,968 80
" H	62,858	cost	11,426 49
Cambridge Field	528,154	cost	203,302 50
Rindge Field and Nursery	501,729	30 cts.	150,518 70
East Cambridge Embankment	363,825	cost	131,986 74
Commons and Squares:			
Garden Street, Massachusetts Avenue and Waterhouse St.	370,785	.....	200,000 00
Massachusetts Avenue, Kirkland and Cambridge Streets..	33,357	.....	.....
Massachusetts Avenue and Peabody Street	23,074	.....	.....
Massachusetts Avenue and Holmes Place	20,956	.....	77,000 00
Massachusetts Avenue and Waterhouse Street	13,181	.....	13,000 00
Washington Elm	886	.....	550 00
Broadway Common	107,181	.....	54,000 00
Fort Washington	42,123	.....	8,000 00
Dana Square	33,531	.....	12,000 00
Hastings Square	30,000	.....	9,000 00
Winthrop Square (approx.)	11,611	.....	11,000 00
Arsenal Square	3,189	.....	2,000 00
Pleasant and River Streets	1,569	.....	1,200 00
Pleasant Street and Western Avenue	1,372	.....	1,000 00
Massachusetts Avenue and Arrow Street	872	.....	800 00
Total value of real estate			$3,828,904 60

PARK DEPARTMENT

PERSONAL PROPERTY.

Stock at nursery	$1,500 00	
Office furniture	500 00	
Bathing suits and towels	500 00	
Horses (2) and harnesses	350 00	
Carriage and wagons	350 00	
Tools, etc.	300 00	
Total value of personal		$3,500 00
Value of real estate		$3,828,904 60
Value of personal		3,500 00
Total		$3,832,404 60

CITY PROPERTY IN USE BY POLICE DEPARTMENT.

219	badges	$150 00		*Amount brought forward*	$2,366 50
87	belts	108 00	3	police signal systems	12,000 00
8	books	26 00	3	patrol wagons	1,000 00
4	bookcases	32 00	93	revolvers	450 00
8	bedsteads	40 00		Ropes and stakes	10 00
	Bedding and blankets	40 00	3	robes, carriage	20 00
1	buggy	200 00	1	rogues' gallery	150 00
8	clocks	25 00	3	saddles and bridles	12 00
2	bureaus	3 00	2	safes	200 00
80	chairs	100 00	95	short billies	42 00
1	carpet	10 00	8	spittoons	2 00
	Letter press and stand	10 00	1	sleigh	25 00
200	copies of police rules	40 00	1	stove	8 00
11	desks	125 00	2	straps and weights	1 00
1	easy chair, matron's	10 00	1	telephone line	300 00
5	horses	500 00	3	thermometers	1 50
6	harnesses	120 00	6	tables	24 00
5	horse blankets	15 00	40	tin dippers	9 00
4	halters	1 00	20	towels	4 00
1	hat rack	50	1	typewriter and desk	140 00
6	ink stands	3 00	2	umbrella stands	2 00
36	lanterns	27 00	1	wagon van, old	25 00
1	lounge	5 00	5	waste baskets	1 00
8	mirrors	14 00	4	water coolers	30 00
3	maps	15 00	1	wardrobe	10 00
10	rugs	20 00	4	water pails	1 00
9	pairs of handcuffs	27 00	2	wagon jacks	2 00
1	police van	300 00		Operating table and chair	37 50
1	ambulance	400 00	3	medicine cabinets	75 00
	Amount carried forward	$2,366 50		Total	$16,948 50

PUBLIC LIBRARY.

REAL AND PERSONAL ESTATE.

141,666 feet of land, as per assessors' books Nov. 30, 1899	$70,000 00	
Library building, as per assessor's books Nov. 30, 1899	116,000 00	
		$186,000 00
Estimated value of books in the library		57,000 00
Estimated value of interior furnishings		9,000 00
		$252,000 00

The lot occupied by the library building is bounded by Broadway, Irving, Cambridge and Trowbridge Streets. The land and buildings were presented to the City of Cambridge by Mr. Frederick H. Rindge in June, 1889, on the completion of the building, which was begun in the autumn of 1887. In 1894 a wing was added to the building at a cost to the city of $20,000.00.

The trustees of the library also hold the following funds, now invested in bonds of the City of Cambridge and deposited with the City Treasurer :—

Fay fund, schoolhouse loan bond, No. 254, due Aug. 1, 1918, 3½ per cent.	$1,000 00	
Cummings fund, water loan bond, No. 38, due July 1, 1909, 4 per cent.	2,000 00	
Citizens' subscription fund, invested as follows :—		
Sewer loan bond, No. 7, due May 1, 1910, 4 per cent.	$5,000 00	
Sewer loan bond, No. 47, due Oct. 1, 1925, 4 per cent.	500 00	
	$5,500 00	
		$8,500 00

PUBLIC PROPERTY.

SCHOOLHOUSES.

	Feet of Land.	Purchase of Land.	Erection of Building.	Valuation of Land.	Valuation of Building.	Valuation of Furniture.
Agassiz	19,689	1874	1875	$8,000	$20,000	$1,215
Allston	15,193	1857	1857 1873 remodelled	4,600	30,000	1,795
Boardman	10,018	1866	1868	4,000	13,000	1,290
Bridge	4,646	1836	1836	1,400	500	.....
Corlett	10,000	1880	1880 purchased	1,200	3,000	195
Cushing	14,787	1880	1880 purchased	1,500	3,000	136
Dana	14,317	1847	1848	4,300	2,000	100
Dunster	10,000	1857	1871 remodelled	3,000	3,000	261
Ellis	25,700	1897	1898	6,000	48,000	2,993
Felton	15,090	1847	1848	4,500	6,000	200
Gannett	15,434	1876	1876	3,000	12,000	430
Gannett (old) Wellington	27,673	1864 1875	1865 1884	2,600 5,700	2,000 50,000	395 2,240
Gore	9,900	1871	1871	4,000	50,000	825
Harvard	20,494	1870	1871 burned 1899 rebuilt	12,000	65,000	3,769
High	74,366	.....	1891	40,900	220,000	9,220
Holmes	11,182	1870	1870	5,000	5,500	275
Lassell	10,000	1880	1880	3,000	8,000	272
Latin	79,579	1894	1897	43,800	225,000	27,150
Lowell	12,033	1883	1883	3,600	5,500	402
Merrill	37,828	1861 1864	1864	19,000	45,000	1,425
Morse	25,650	1889	1890	7,000	73,000	2,040
Otis	8,270	1842 1857 1858	1859 1870 remodelled	4,000	20,000	930
Parker	12,319	.....	1893	7,000	15,000	710
Peabody	21,813	1887	1888 1898 enlarged	9,800	68,000	3,340
Putnam	14,400	1825 1847 1896	1825 removed 1847 torn down 1889 rebuilt	9,860	64,500	2,550
Reed	12,000	1868	1868	1,200	4,000	310
Rindge, M. T.	81,128	.....	1887	44,000	56,000	8,000
Riverside	11,198	1868	1868	3,000	5,000	330
Roberts	16,400	1898	1898	12,000	48,000	3,003
Russell	33,073	1895	1896	6,000	40,000	2,440
Sargent	9,995	1838	1838	5,000	3,000	255
Shepard	14,755	1855	1856 1873 enlarged	11,000	26,000	1,047
Sleeper	21,284	1894	1894	5,000	24,000	1,190
Stearns	10,050	1812	1841 burned 1843 rebuilt	5,000	3,000	322
Tarbell	19,500	1878	1882	4,900	7,000	355
Taylor	23,592	1894	1895	6,000	36,000	1,720
Thorndike	10,027	1860	1860 1875 remodelled	4,000	30,000	1,676
Washington	14,951	1851	1851 1871 remodelled 1878 altered	10,000	25,000	1,830
Webster	25,839	1852 1866 1889	1852 1873 remodelled 1885 enlarged	9,000	50,000	3,550
Willard	20,079	1869	1870	7,000	25,000	1,350
Wyman	14,347	1871	1871 1886 addition	4,500	5,000	555
				$356,300	$1,444,000	$92,091

PUBLIC PROPERTY.

CITY BUILDINGS.

	Feet of Land.	Purchase of Land.	Erection of Building.	Valuation of Land.	Valuation of Building.	Valuation of Furniture.
City Hall.....	47,878	1888	1888	$72,000	$200,000	$29,800
Brattle Sq. Bldg	16,153	1873	1874	16,000	60,000	2,500
Central Sq. Bldg.	13,028	1872	1873	10,500	50,000	2,436
Station 3.....	4,220	1862	1870	2,100	20,000	800
Ward 5 Bldg....	6,316	1872	1873	3,700	5,300	300
				$104,300	$335,300	$35,836

SCHOOL DEPARTMENT.

PERSONAL PROPERTY.

Text books	$16,177 23	
Desk, reference and library books	1,200 00	
Apparatus in R. M. T. S.	18,803 54	
Apparatus in other schools	4,987 84	
Stock on hand (books, apparatus and supplies)	5,305 70	
		$46,474 31

SEALER OF WEIGHTS AND MEASURES.

PERSONAL PROPERTY.

1 bay horse	$100 00	
1 express wagon	100 00	
1 light wagon	50 00	
1 heavy harness, 1 light harness	25 00	
1 plush robe	1 00	
		$276 00
1 standard balance		150 00
1 oak cabinet for same		50 00
2 prescription scales, in cases		50 00
2 roll top desks		30 00
1 black walnut table		1 00
5 office chairs		3 00
1 platform scale with brass weights		50 00
1 metric bar, in case		10 00
1 Sealer's trip scale		5 00
1 set standard weights, avoirdupois, iron, 1-50 lb., 1-25 lb , 1-20 lb , 1-10 lb., 1-5 lb		25 00
2 sets standard weights, brass, 1-8 oz. to 4 lbs.		15 00
2 sets standard dry measures		50 00
2 sets standard wine measures		40 00
Amount carried forward		$755 00

SEALER OF WEIGHTS AND MEASURES — Concluded.

Amount brought forward	$755 00	
1 set standard wine measures (incomplete)	3 00	
1 upright drill	5 00	
1 hand drill	2 00	
1 brass yard measure	2 00	
1 set Troy weights	3 00	
1 set metric weights, 1 gram to 1 kilo	3 00	
1 extra kilo	1 50	
1 box grain weights, 1-10 grain to 500 grains	10 00	
40-50 lb weights, for testing hay and coal scales	100 00	
Lot of tools, hammer, wrench, etc., etc.	2 00	
		$886 50

SEWER DEPARTMENT.

REAL ESTATE.

Location.	Buildings.	Erection of Buildings.	Purchase of Land.	Feet of Land.	Estimated Value of Land.	Estimated Value of Buildings.	Total.
Pilgrim Street...	Stable	1887					
		1881					
"	Sheds. ...	1884					
		1892					
"	House	1890	1868	23,707	$5,900 00	$4,100 00	$10,000 00

SEWERS.

108,327 miles of sewers, which have cost to date	$1,349,277 66

PERSONAL PROPERTY.

4 horses	$600 00	
1 buggy	150 00	
1 Concord wagon	150 00	
2 dump carts	200 00	
1 hose wagon	100 00	
1 express wagon	75 00	
6 sets of harness	180 00	
1 hoisting engine	400 00	
1 pile driver and hammer	100 00	
1 horse roller	75 00	
4 hand pumps	100 00	
Miscellaneous small tools	800 00	
Total		$2,930 00

Real estate	$10,000 00
Sewers	1,349,277 66
Personal property	2,930 00
Total	$1,362,207 66

STREET DEPARTMENT.

REAL ESTATE.

Location.	Buildings.	Erection of Buildings.	Purchase of Land.	Feet or Acres of Land.	Valuation of Land.	Valuation of Buildings.
Raymond St.....	City Yard and Stable, stable, sheds, scales, etc.	1897	1896	7 A.	$11,000	$33,000
Hampshire St....	City Stable sheds and scales, including old police station	1885	....	72,661	30,000	17,000
E. S. Norfolk St.	Yard and pound.....	....	....	39,600	12,000	....
River St.....	Yard and wharf.....	....	....	92,800	32,000	.....
Acton, Mass.....	Land, Gravel bank.....	....	1896	32 A.	7,000	.....
					$92,000	$50,000
	Total valuation of Real Estate.....					$142,000

STREET DEPARTMENT

PERSONAL PROPERTY.

70 horses	$7,000 00	
48 watering carts	12,000 00	
48 carts (30 single, 18 double)	4,800 00	
65 sets of harness	1,625 00	
23 sleds, 2 snow plows, 1 sleigh	1,350 00	
2 snow levellers, 16 gutter plows	340 00	
1 buggy, 4 foremen's wagons	400 00	
3 tool wagons, 1 bicycle	175 00	
2 hay racks, 1 caravan, 2 pungs	275 00	
3 steam road rollers	4,500 00	
1-2 horse section roller	150 00	
4 road machines	800 00	
2 road scrappers	400 00	
5 street sweepers	150 00	
Stone crushing plant, Raymond Street Yard	5,500 00	
Stone crushing plant, Hampshire Street Yard	6,000 00	
Tools and stable furniture	4,000 00	
Lumber, iron, paints, oils, etc.	1,800 00	
212 feet of s raight edgestone	60 48	
248 feet of circle edgestone	148 80	
92 linear feet granite flagging	48 93	
37,000 paving blocks	740 00	
30,000 sidewalk bricks	390 00	
35,000 vitrified bricks	980 00	
1,500 tons cracked stone	1,950 00	
Total		$55,583 21
Real estate	$142,000 00	
Personal property	55,583 21	
Total		$197,583 21

WATER WORKS.

Street.	Buildings.	Date of Purchase.	Feet or Acres of Land.	Valuation of Land.	Valuation of Buildings.	Valuation of personal.
Adams Place		1890	160,597	$1,400		
"		1890	419,222	10,000		
S. S. Auburn	1 house & sheds.				$4,000	
" "	Stable (brick)				7,000	
" "	Shop (brick	1868	(Lot 12) 33,847	6,600	5,500	$24,200
" Concord Ave	1 house (brick)					
" "	Shop and stable.		27 33-100 a.	16,700	4,000	325
" "		1890	$\frac{6}{8}$ a. (gravel pit)	300		
" "		1856	397,417	3,000		
" "		1886	99,000	1,000		
" " nr. Adams Street		1891	10,805	500		
S. S. Concord Ave.		1886	11,220	100		
" " cor. Huron Ave.		1892	32,425	700		
S. S. Concord Ave.		1890	219,400	2,200		
" "		1890	62,000 (G. H. lot)	1,200		
Concord Avenue		1890	43,560	400		
Near Concord Avenue and Railroad		1892	$4\frac{1}{2}$ a.	5,000		
S. S. Concord Ave.		1890	24,100	300		
" "		1889	294,000	3,000		
" " between Fresh Pond and Watertown Branch of F. R. R.		1886	(Tudor Park) 57,312	1,500		
E. S. Cushing		1886	41,053	800		
" " , cor. Woodlawn Avenue, north end		1888	95,482	2,000		
Cushing, corner Woodlawn Ave.		1888	639,550	4,000		
E. S. Cushing, cor. Woodlawn Avenue, south end		1888	(Tri'ngular lot on St.)	No value		
Fresh Pond Lane			211,835	20 000		
" "		1890	$11\frac{1}{4}$ a.	11,000		
R. Fresh Pond Lane		1886	364,608	3,500		
" " "		1886	239,541	5,000		
Near Fresh Pond Lane and Adams Place		1886	110,891	1,000		
Fresh Pond Lane, cor. Huron Ave.		1894	46,479	6,900		
Rear of Grove		1886	272,800	2,000		
" " "		1888	150,000	1,500		
" " "		1890	519,000 for ext'n St	6,000		
Holworthy		1886	18,480	No value		
S. S. Huron Avenue (part lot)		1886	22,348	700		(in G. H.) 15
S. S. Huron Avenue (part lot)		1888	91,112	500		
Huron Avenue		1890	190,500	4,300		
" "		1890	$1\frac{3}{4}$ a.	1,000		
Kingsley Park		1867 1886	309,336	8,000		
Lake View Ave., cor. Vassal Lane			(Lot 34) 15,371	2,000		
E. S. Lake View Avenue			(Lot 32) 12,000	1,200		
E. S. Lake View Avenue	House		(Lot 30) 9,000	1,000	7,000	
W. S. Lake View Avenue			(Lot 37) 9,180	1,000		
Amts. carried for'd				$137,300	$27,500	$24,540

WATER WORKS — Continued.

Street.	Buildings.	Date of Purchase.	Feet or Acres of Land.	Valuation of Land.	Valuation of Buildings.	Valuation of Personal
Amts. brought for'd.				$137,300	$27,500	$24,540
E. S. Lake View Avenue			(Lot 31) 12,000	$1,200		
E. S. Lexington Ave., cor. Worthington	House and stable.		(Lot 63) 14,437	2,900	7,300	
Massachusetts Ave.	In City Hall					office furn $1,000
Reservoir		1865	Reservoir 91,003	27,000		
Vassal Lane			(Lot 33) 10,795	1,000		
E. S. Woodlawn Av.		1886	91,040	2,000		
Woodlawn Avenue.		1886	24,096	1,900		
E. S. Woodlawn Av.		1886	107,616	8,000		
N. S. Woodlawn Av.		1887	25,216	1,200		
E. S. Woodlawn Av.		1886	15,735	800		
Woodlawn Avenue.		1886	26,989	1,600		
E. S. Woodlawn Av.						
	Woodlawn Ave. 9,910					
	29,471					
	22,100					
	4,000					
	7,000					
	7,333					
	14,328					
	12,280					
	106,422					
	Cushing 15,611					
	11,303					
	26,914		133,336	13,700		
Worthington	Pumping Station and machinery..	1856			50,000	pumping pl't, tools 200,000
	Dwelling house.	1873	90,414	18,000	2,000	
E. S. Worthington, cor. Lake View Avenue		1856 1883	(Lot 36) 5,294	800		
Nursery stock at Fresh Pond						5000
Total				$217,400	$86,800	$230,540

REAL ESTATE AT HOBBS BROOK.

Value of land	$226,298 30	
Gate houses	6,710 40	
Keeper's house and stable	5,000 00	
Dams	132,297 73	
Personal property	120 00	
		$370,426 43

REAL ESTATE AT PAYSON PARK.

Value of land	$43,650 17	
Tool house	300 00	
Reservoir	287,000 00	
Personal property	30 00	
		$330,980 17

REAL ESTATE AT STONY BROOK.

Value of land	$138,080 73	
Keeper's house and stable	3,000 00	
Dam	289,000 00	
Personal property	50 00	
		$430,130 73

Valuation of :—

Main pipe	$624,830 00	
Supplies	210,735 00	
Boxes	12,500 00	
Fountains	5,600 00	
Gates	37,500 00	
Hydrants	42,525 00	
Ice water fountains	1,900 00	
Meters	9,285 00	
Standpipes	1,475 00	
Payson Park Line	198,000 00	
Stony Brook Line	237,600 00	
		$1,381,950 00

REPORT OF THE COMMITTEE ON ACCOUNTS

CAMBRIDGE, December 26, 1900.

To the Honorable, the City Council:—

Agreeably to the requirements of the City Ordinances this Committee herewith submits its annual report.

The Committee has met as often as once in each month during the past year, and has examined and compared with the Auditor's record, the numerous bills approved by the several heads of departments and by the various executive boards. The Auditor's books and accounts have been carefully examined, and the accuracy and neatness with which they have been kept are highly commendable. The Committee would further express its appreciation of the promptness and courtesy of the Auditor at all times, both to the Committee and the public.

WILLIAM F. BROOKS,
ALBERT B. LONG,
JAMES J. MALLEY,
JOHN F. DANSKIN,
JAMES T. BARRETT,

Committee on Accounts.

REPORT OF THE COMMITTEE ON FINANCE, 1900

The Committee on Finance herewith submits its customary annual report.

The following is a condensed statement of the annual estimates as made at the beginning of the year : —

APPROPRIATIONS AND ESTIMATED REVENUE, 1900.

City Department accounts	$141,725 00	
Water Department accounts	328,500 00	
Other revenue	377,000 00	
Cash in Treasury December, 1899	172,045 56	
Grand total		$1,019,270 56

AGGREGATE AMOUNTS OF APPROPRIATIONS RECOMMENDED.

	Revenue.	Expenses.
City Department accounts	$141,725 00	$1,957,761 04
Water Department accounts	328,500 00	358,962 50
	$470,225 00	$2,316,723 54

GENERAL RECAPITULATION.

Total estimated expense as before recited	$2,316,723 54	
Allowance for City Treasurer's estimate of uncollected taxes for the year 1900, as of Nov. 30, 1900	250,000 00	
Total appropriations and liabilities		$2,566,723 54

LESS.

Estimated revenue of all kinds, and cash in the Treasury	1,019,270 56
Leaving an amount to be provided for	$1,547,452 98

The Committee recommended that this amount be provided for as follows :—

By issue of City Bonds	$50,000 00	
Park loan	30,500 00	
Sewer loan	58,000 00	
Street loan	9,500 00	
		$148,000 00
By assessment upon the polls and estates of the inhabitants of Cambridge, etc., for the current year, being the amount required for municipal expense for the year		1,399,452 98
		$1,547,452 98

In accordance with the foregoing estimates, the following orders were recommended for adoption: —

CITY OF CAMBRIDGE
IN COMMON COUNCIL, February 27, 1900.

Ordered: That the sum of *one million, three hundred and ninety-nine thousand, four hundred and fifty-two dollars and ninety-eight cents* ($1,399,452.98) be raised by assessment upon the polls and estates of the inhabitants of the City of Cambridge, and the estates of non-resident proprietors, according to law, to defray the current expenses of the City for the financial year beginning December 1, 1899, and ending November 30, 1900.

CITY OF CAMBRIDGE
IN COMMON COUNCIL, February 27, 1900.

Ordered: That the sums following be and are hereby appropriated towards defraying the expenses of the City of Cambridge for the financial year beginning December 1, 1899, and ending November 30, 1900.

Following the latter order were two separate lists of the several appropriations recommended — one being that of the several City Departments, and the other that of the Water Department appropriations amounting as hereinbefore stated to the sum of $2,316,723.54.

To the list of the City Department appropriations, the City Council added an item for

Vacation schools	$2,000 00

and also struck out the following: —

Rebuilding Cambridge Street	$20,000 00
" Harvard Square	13,000 00
	$33,000 00

These changes effected a net reduction in the amount of the City Department appropriations as reported by the Committee in the sum of $31,000.00.

The orders before mentioned were subsequently modified in accordance with the above stated changes.

The usual sub-committee was appointed to examine the condition of the City Treasury at the close of business on Friday, November 30, that being the last day of the financial year 1900. The Committee consisted of Alderman Saunders, President Merrill, of the Common Council, and Councilman Albert H. Hall.

This sub-committee attended to its duty and subsequently submitted the following report: —

CITY OF CAMBRIDGE, December 26, 1900.

To the Committee on Finance:—

GENTLEMEN: — The Sub-Committee appointed to count and examine the cash in the hands of the City Treasurer at the close of business on November 30, 1900, would respectfully report:—

November 30, 1900 Actual cash and business checks in the City Treasurer's office amounted to		$5,889 97	
Also a certificate from W. F. Earle, Cashier of the First National Bank of Cambridge, Mass., showing a balance (at close of business, November 30, 1900), to the credit of the City Treasurer, of	$251,978 32		
From this balance should be deducted City Treasurer's check No. 13 858, not presented to bank for payment	2,639 58		
Making a net balance in above bank of		249,338 74	
Also a certificate from Fred B. Wheeler, Cashier of the Lechmere National Bank of Cambridge, Mass, showing a balance (at close of business, November 30, 1900), to the credit of the City Treasurer of		9,892 74	
Also a certificate from Louis W. Cutting, Treasurer of the Cambridge Trust Company of Cambridge, Mass., showing a balance (at close of business, November 30, 1900), to the credit of the City Treasurer of		25,008 51	
Making the total cash on hand			$290,129 96
December 26, 1900. After the above examination by your Committee, certain additional entries belonging to the financial year 1900 were made, the receipts and expenditures which these same represent being as follows:—			

RECEIPTS.

Account of Contingent Fund:—		
Minor's licenses	$55 00	
Account of Inspection of Milk and Vinegar:—		
Milk licenses	10 50	
Account of Overseers of Poor:—		
Farm Department, receipts for produce, etc.	429 08	
From Commonwealth of Massachusetts:—		
Account of State Aid	15,997 73	
Account of Corporation Tax	76,586 40	
Account of National Bank Tax, being amount received for stocks of Massachusetts banks outside of Cambridge owned by Cambridge residents	16,264 45	
Account of Street Railway Tax (Chapter 578, Acts of 1898)	86,582 65	
Account of Taxes 1900, additional to entry of November 30, 1900, but not previously reported	33,576 05	
Street Watering Collections, taxes 1900	246 74	
Interest, taxes 1900	81 37	
Treasury Department, costs, taxes 1900	41 80	
A total of		229,871 77
Which amount, added to City Treasurer's balance of November 30, 1900, as above, makes a total of		$520,001 73

EXPENDITURES.

Authorized additional payments as of November 30, 1900, verified by your Committee, are as follows :—		
Paid Commissioners of Sinking Funds :—		
Account of Park Loan Sinking Fund . . .	$17,500 00	
Account of Cambridge Bridge Loan Sinking Fund .	625 00	
Account of Clay Land Loan Sinking Fund . .	4,850 00	
Account of Harvard Bridge Loan Sinking Fund .	8,000 00	
Account of Improved Sewerage Loan Sinking Fund	840 00	
Account of General Sinking Fund	27,309 00	
Paid trustees of Sinking Funds of Cambridge Water Works for balance of annual contribution on account of Water Loan Sinking Fund . . .	10,565 62	
Paid sundry persons :—		
Account of school salaries, pay roll, No. 245 . .	2,283 50	
Account of weekly pay roll, No. 242 . . .	8,064 65	
Paid Commonwealth of Massachusetts :—		
Account of Metropolitan Sewer Tax, being annual assessment of Interest, Maintenance and Sinking Fund charges on account of Metropolitan Sewer .	73,018 92	
Account of National Bank Tax, being refund of taxes on non-resident owners of stock in Cambridge Banks	7,167 54	
Account of State Tax, being assessment for year 1900	48,195 00	
Paid sundry persons—Account of Abatements. Taxes, as per additional entries of November 30, 1900 .	1,306 86	
A total of		$209,726 09
Which, deducted from the foregoing total of receipts, shows a balance of		$310,275 64
From this balance should be deducted the amount, held by the City Treasurer on "Suspense Account," received from Cuban teachers, to be held as a prize for drawing in the public schools		100 00
Making net balance in City Treasurer's hands, as of November 30, 1900		$310,175 64
Your Committee would further state that we carefully examined the total cash receipts for the financial year of 1900, as of the City Treasurer's books, and find the same to be as follows :—		
Total cash receipts from all sources for the year ending November 30, 1900, as per City Treasurer's ledger	$3,454,837 68	
To this should be added cash balance of Nov. 29, 1899	249,551 47	
A total of		$3,704,389 15
Total cash expenditures for the year ending November 30, 1900, as per City Treasurer's ledger — the same authorized by sundry drafts of the Mayor, which your Committee examined		3,394,213 51
Which amount deducted from above total shows a cash balance, as of November 30, 1900, verified by our above report, of		$310,175 64

The Sub-Committee were enabled to further verify the above statement of receipts and expenditures, by comparison with the City Auditor's statement for December, 1900.

GEORGE E. SAUNDERS,
JOHN D. MERRILL,
ALBERT H. HALL. } *Sub-Committee.*

In addition to what is before given, there is little to be said. The Committee has had frequent meetings and important financial matters have been considered. The increasing demands upon the treasury, for expenditures of the public money, have been met it is believed with due consideration for the interests of the tax-payers.

WALTER C. WARDWELL,
GEORGE E. SAUNDERS,
JOHN J. AHERN,
HAMILTON H. PERKINS,
JOHN D. MERRILL,
WILLIAM M. WADDEN,
JAMES J. HILL,
ALBERT H. HALL,
FRED. L. BEUNKE,
FRED. A. GILLIGAN,

Committee on Finance.

REPORT OF THE CITY TREASURER

City of Cambridge,
Office of City Treasurer, December 1, 1900.

To the Honorable, the City Council:—

In the following pages I submit a detailed report of the receipts and expenditures of the public funds by the Treasury Department, during the year ending November 30, 1900, including an account of all bonded and temporary loans negotiated in said year; also a detailed account of official fees received and reports on the Cemetery Fund and the Sarah E. Russell Fund.

Very respectfully,

WM. W. DALLINGER,

City Treasurer.

City of Cambridge in Account Current from December 1, 1899, to

Dr.

To authorized payments charged to City Accounts: —	
Abatements — Taxes	$33,005 90
Assessors' Department	13,739 89
Auditing Department	3,601 68
Bridge Department	17,820 44
Cambridge Bridge	58,689 99
Cemetery Department	21,377 54
Cemetery Fund	2,712 00
City Clerk's Department	8,041 16
Classified Index	314 57
Printing Town Records	800 00
Russell Memorial Volume	3 75
City Messenger's Department	2,549 19
Civil Service Department	243 60
Clerk of Committees Department	3,952 54
Contingent Fund	25,991 66
Election Expenses: —	
City Clerk	5,216 72
Registrars of Voters	3,528 12
Superintendent of Buildings	1,363 33
Electrical Department: —	
Lamps	71,871 21
Wires	11,666 99
Engineering Department	10,941 68
Assessors' Plans	278 18
Executive Department	5,139 14
Mayor's Contingent Fund	158 25
Fire Department	89,673 60
Health Department	28,929 08
Inspection of Milk and Vinegar	1,517 57
Inspection of Provisions	768 80
Interest	150,015 96
Land Damages	15,752 94
Law Department	5,100 91
Loan: —	
Temporary	600,000 00
High School	100,000 00
Overseers of the Poor: —	
Almshouse	22,010 63
Farm	4,921 33
House Offal	26,745 45
Outside Aid	49,442 32
Salary of City Physician	1,500 00
Park Department: —	
Construction and Lands	89,149 99
Interest on Park Loan	41,900 00
Maintenance	21,408 71
Sinking Fund	17,500 00
Park Betterment Lien Account	10 41
Plumbers Examiners Department	113 75
Police Department	123,824 80
Public Library Department: —	
Current Expenses	18,979 18
East Cambridge Branch	1,227 28
Public Property: —	
City Buildings — Care and Repairs	19,253 96
Incidentals	5,375 59
School Houses — Care and Repairs	75,117 71
Rifle Range	185 30
Land for Schoolhouse — Ward 1	12,800 00
New Schoolhouse — Ward 1	14 33
Furnishing New Latin Schoolhouse	7,199 61
New Latin Schoolhouse	291 89
Rebuilding Harvard Schoolhouse	23,204 98
Roberts Schoolhouse	620 35
Roberts Schoolhouse Furnishings	335 90
Ellis Schoolhouse	29 58
Amount carried forward	$1,857,929 44

NOV. 30, 1900 (INCLUSIVE), WITH WM. W. DALLINGER, CITY TREASURER.

Cr.

By Receipts as follows: —	
Bridge Department	$492 35
Betterments: —	
Eliot Street	825 25
Eighth Street	249 70
Magee Street	1,198 67
Cambridge Bridge	50 00
Cemetery Department	16,155 07
Cemetery Fund	2,712 00
City Clerk's Department	3,003 70
Commissioners of Sinking Funds	100,000 00
Contingent Fund	3,032 23
Electrical Department: —	
Lamps	3 00
Wires	315 96
Fire Department	100 00
Health Department	172 52
Inspection of Milk and Vinegar	149 00
Interest	9,705 36
Law Department	500 00
Loan: —	
Temporary	600,000 00
Sewer	100,000 00
Park	100,000 00
Cambridge Bridge	100,000 00
City	36,000 00
Cemetery	7,000 00
Street	21,000 00
Water	30,000 00
Overseers of the Poor: —	
Almshouse	748 97
Farm	5,082 43
House Offal	7,322 05
Outside Aid	3,141 30
Park Department: —	
Construction and Lands	1,983 35
Interest on Park Loan	121 29
Maintenance	1,491 90
Park Betterment Lien Account	5,426 90
Plumbers Examiners Department	35 50
Police Department	6,064 38
Premium Account	31,658 30
Public Library Department: —	
Current Expenses	5,177 59
Public Property: —	
City Buildings — Care and Repairs	6,635 82
Schoolhouses — Care and Repairs	5 00
School Department: —	
Salaries	5,699 48
Text-books and Supplies	403 42
Sealer of Weights and Measures	498 00
Sewer Department: —	
Construction — General	9,250 89
Maintenance	197 02
State Aid	16,529 82
Stationery and Printing	982 17
Street Department: —	
Maintenance	2,776 04
Paving — Edgestones and Sidewalks	12,210 92
Rebuilding Pearl Street and Harvard Square	5,740 20
Rebuilding Inman Street	1,200 00
Watering Streets	17,358 71
Tax: —	
Corporation	94,967 42
National Bank	16,760 44
Street Railway	106,515 94
Tax Lien Account	8,370 55
Amount carried forward	$1,507,020 61

City of Cambridge in Account Current from December 1, 1899, to

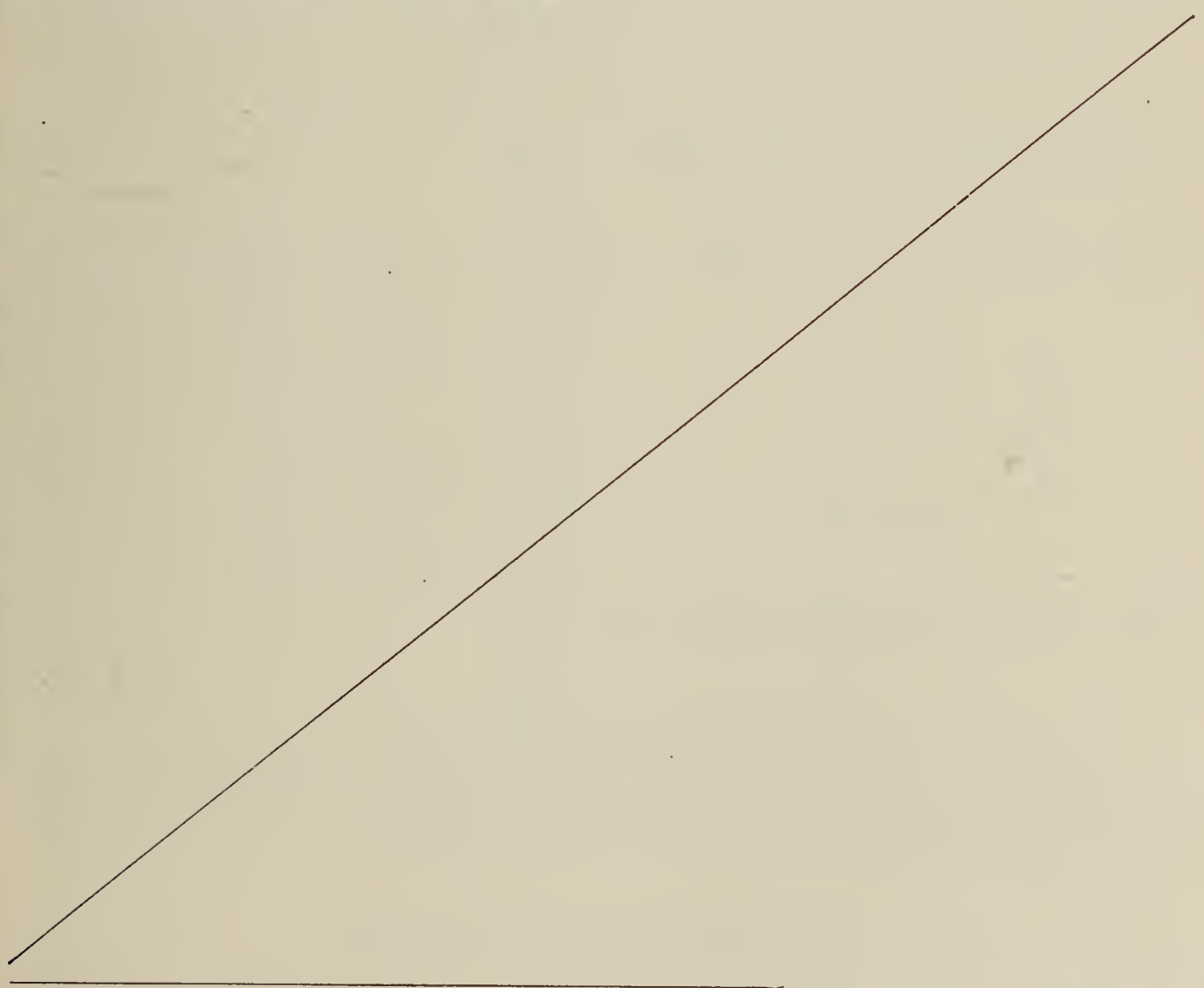
Dr.

Amount brought forward	$1,857,929 44
Public Property:—	
Ellis Schoolhouse Furnishings	181 75
Peabody Schoolhouse	272 96
Peabody Schoolhouse Furnishings	306 40
Wellington, Gore and Felton Schoolhouses	27,697 88
School Department:—	
Care of Truants	1,714 79
Flags	170 25
Incidentals	1,662 46
Salaries	333,191 34
Text-books and Supplies	20,148 01
Vacation Schools	1,996 11
Sealer of Weights and Measures	1,525 30
Sewer Department:—	
Construction — General	15,254 82
Construction — Improved Sewerage	79,618 95
Maintenance	19,084 13
Sinking Fund:—	
Cambridge Bridge	625 00
Clay Lands	4,850 00
General	119,509 00
Harvard Bridge	8,000 00
Improved Sewerage	840 00
State Aid	25,235 03
Stationery and Printing	3,038 33
Street Department:—	
Bridges	2,214 65
Cleaning Streets	33,005 63
Collection of Ashes	27,237 04
Construction — Green Street	899 97
Construction — New Streets, Clay Land District	3,068 42
Inman Court	271 06
Maintenance	82,317 89
Paving — Crossings, Repairs, etc.	9,798 13
Paving — Edgestones and Sidewalks	26,355 25
Rebuilding Cambridge Street	16,443 26
Rebuilding Pearl Street and Harvard Square	30,914 95
Rebuilding Portland Street	26,955 81
Rebuilding Prospect Street	340 48
Rebuilding Inman Street	1,200 00
Watering Streets	26,402 82
Tax:—	
County	85,997 56
Metropolitan Sewer	73,018 92
National Bank	7,167 54
State	48,195 00
Tax Sale Surplus	30 00
Treasury Department	15,688 93
Water Works Department:—	
Construction:—	
General	18,207 01
Fresh Pond Reservoir	55 25
Hobbs Brook Reservoir	2,615 62
Hobbs Brook Reservoir — Services of City Solicitor	500 00
Interest on Water Loan	127,179 00
Maintenance — General	66,379 95
Rates, Fines, etc.:—	
Abatements	4,959 20
Refunds	2,941 95
Sinking Funds	125,089 12
Supplies	5,739 73
Abatements	171 42
Total Payments	$3,394,213 51
Cash Balance in Treasury, November 30, 1900	310,175 64
	$3,704,389 15

NOV. 30, 1900 (INCLUSIVE), WITH WM. W. DALLINGER, CITY TREASURER.

Cr.

Amount brought forward	$1,507,020 61
Taxes:—	
1893	12 00
1894	9 16
1895	22 60
1896	220 94
1897	1,431 75
1898	5,543 64
1899	261,412 53
1900	1,337,274 20
Treasury Department	2,634 78
Water Works Department:—	
Construction — General	2,022 90
Interest on Water Loan	61 25
Maintenance — General	3,082 73
Rates, Fines, etc	328,513 52
Supplies	5,575 67
Total Receipts	$3,454,837 68
Cash Balance in Treasury, November 29, 1899	249,551 47



$3,704,389 15

FEES.

During the year the Treasurer has received official fees amounting to $2,592.98, itemized as follows :—

Summonses to delinquents	$1,569 32	
Preparing advertisements of sale	373 00	
Advertisements of sale	5 16	
Posting notices of sale	335 50	
Making tax deeds	155 00	
Making affidavits	155 00	
		$2,592 98

These fees were all turned into the City Treasury as received.

CEMETERY FUND.

This fund, held by the City Treasurer in trust, comprises sums received from the proprietors of lots in our Cambridge Cemetery for the perpetual care of their lots therein. The amount of the fund is now $49,161.55, and is invested as follows :—

City of Cambridge 4 per cent. registered bond, due November 1, 1903, for		$10,000 00
" " 3½ " " " " November 1, 1906, "		7,000 00
" " 4 " " " " November 1, 1907, "		2,000 00
" " 3½ " " " " August 1, 1908, "		4,900 00
" " 4 " " " " November 1, 1909, "		2,000 00
" " 4 " " " " May 1, 1910, "		5,000 00
" " 4 " " " " October 1, 1916, "		2,000 00
" " 3½ " " " " August 1, 1918, "		1,000 00
" " 3½ " " " " November 1, 1919 "		3,000 00
" " 4 " " " " October 1, 1925, "		7,500 00
Deposited in Cambridgeport Savings Bank		4,761 55
		$49,161 55

The interest received on this fund is annually credited to the account of "Cambridge Cemetery," to be expended by the Commissioners of said Cemetery in the carrying out of the City's obligation.

SARAH E. RUSSELL FUND.

This is a fund bequeathed by the late Sarah E. Russell, of Cambridge, in 1898, "the income therefrom to be annually expended in or towards providing a Christmas tree or Christmas gifts and entertainments for the inmates at the time of the Cambridge Almshouse." The amount of the bequest was $814.41, and was deposited in the Cambridgeport

Savings Bank, where it now remains. The interest accumulations to November 30, 1900, will be handed to Capt. Eldridge, Warden of the City Home, to be used at the approaching Christmas as stipulated in the will of Mrs. Russell.

Very respectfully,

WILLIAM W. DALLINGER,
City Treasurer.

TEMPORARY LOANS IN ANTICIPATION OF TAXES, NEGOTIATED IN THE YEAR ENDING NOVEMBER 30, 1900.

Date.	Maturity.	Amount.	
1900.	**1900.**		
January 13....	October 11....	$25,000	Discounted at 4 125 per cent. per annum.
January 13....	October 11....	25,000	" " 4.125 " "
January 19....	October 12....	25,000	" " 3 95 " "
January 19....	October 12....	25,000	" " 3.95 " "
February 2....	October 12	25,000	" " 3.24 " "
February 2....	October 12....	25,000	" " 3.24 " "
February 2....	October 12....	25,000	" " 3 24 " "
February 27....	October 12....	25,000	" " 3.375 " "
February 28....	October 15	50,000	" " 3.475 " "
April 10....	October 15....	25,000	" " 3.33 " "
April 10....	October 15....	25,000	" " 3.33 " "
April 28....	October 15....	25,000	" " 3.25 " "
April 28....	October 15....	25,000	" " 3.25 " "
April 28....	October 15....	25,000	" " 3.25 " "
April 28....	October 15....	25,000	" " 3.25 " "
April 28....	October 15....	25,000	" " 3.25 " "
April 28....	October 15....	25,000	" " 3.25 " "
August 16....	October 15....	18,500	" " 3.00 " "
August 16	October 15....	14,500	" " 3.00 " "
August 20....	October 16....	25,000	" " 3.18 " "
August 20....	October 16....	25,000	" " 3.18 " "
September 8....	October 16....	17,000	" " 3.20 " "
September 8....	October 16....	25,000	" " 3 20 " "
September 8....	October 16....	25,000	" " 3.20 " "
		$600,000	Average rate 3.3725 per cent.

These loans were all paid before the close of the financial year.

PARTICULARS CONCERNING THE BONDS NEGOTIATED DURING THE YEAR ENDING NOVEMBER 30, 1900.

Date of Bond.	Amount.	Loan.	Years to Run.	Rate of Interest.	Purchaser.	Price Paid.	Basis.
1900.							
July 1.....	$100,000	Cambridge Bridge.....	40	3½	Dominick & Dominick.....	109.929	3.07
July 1.....	50, 00	Park.....	40	3½	Dominick & Dominick.....	109 929	3.07
July 1. ...	100,000	Sewer.....	30	3½	Dominick & Dominick.....	108.444	3.07
Nov. 1.....	7,000	Cemetery.....	10	3½	Estabrook & Co.; one price paid for aggregate of these bonds.....	107.14	3.06
Nov. 1.....	36,000	C ty	10	3½			
Nov. 1.....	50,000	Park.....	40	3½			
Nov. 1.....	21,000	Street.....	20	3½			
Nov. 1.....	30,000	Water.....	20	3½			
	$394,000						

RECAPITULATION.

Cambridge Bridge Loan.....	$100,000	Sewer Loan.....	$100,000
Cemetery Loan.....	7,000	Street Loan.....	21,000
City Loan.....	36,000	Water Loan.....	30,000
Park Loan.....	100,000	Total issue.....	$394,000

REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS

To the Honorable, the City Council:—

The undersigned Commissioners of the Sinking Funds of the City herewith present their twenty-fifth annual report, covering the year ending November 30, 1900.

DR.

The amount of the Funds, November 30, 1899, was	$930,733 90	
Received from the City of Cambridge, by its Treasurer, the annual requirements as appropriated by the City Council for the different loans	151,324 00	
Interest received on invested Funds	39,587 66	
		$1,121,645 56

CR.

Paid the Treasurer of the City of Cambridge amount necessary to meet Schoolhouse Bonds maturing May 1, 1900, viz:	$100,000 00	
Paid premium on investments purchased	124 00	
Paid accrued interest on investments purchased	55 56	
Leaving the amount of the Funds, November 30, 1900, all securities enumerated at par	1,021,466 00	
		$1,121,645 56

The following are the investments belonging to the Funds:—

Cambridge	City	Bonds,	4s,	Maturing	July	1, 1901	$10,000 00	
"	"	"	6s,	"	July	1, 1904	92,000 00	
"	"	"	6s,	"	July	1, 1905	63,000 00	
"	"	"	3 1-2s,	"	Nov.	1, 1909	32,000 00	
"	"	"	3 1-2s,	"	Nov.	1, 1919	18,000 00	
"	"	"	3 1-2s,	"	Nov.	1, 1929	42,000 00	
								$257,000 00
Gloucester	"	"	4s,	"	May	1, 1901	4,000 00	
Brockton	"	"	4s,	"	June	1, 1901	3,000 00	
Quincy	"	"	4s,	"	July	1, 1901	2,500 00	
Somerville	"	"	4s,	"	July	1, 1901	16,000 00	
Brockton	"	"	4s,	"	Dec.	1, 1901	4,000 00	
Gloucester	"	"	4s,	"	May	1, 1902	4,000 00	
Quincy	"	"	4s,	"	July	1, 1902	7,500 00	
Somerville	"	"	4s,	"	July	1, 1902	14 000 00	
Cleveland, O.	"	"	3 65-100s,	"	Sept.	1, 1902	1,000 00	
Brockton	"	"	4s,	"	Dec.	1, 1902	4,000 00	
"	"	"	4s,	"	June	1, 1903	4, 00 00	
Quincy	"	"	4s,	"	July	1, 1903	7,500 00	
Brockton	"	"	4s,	"	Dec.	1, 1903	4,000 00	
"	"	"	4s,	"	June	1, 1904	4,000 00	
Quincy	"	"	4s,	"	July	1, 1904	7,500 00	
Lawrence	"	"	4s,	"	July	1, 1904	12,000 00	
Pawtucket, R. I.	"	"	4s,	"	July	1, 1904	15,000 00	
Hopkinton	Town	"	4s,	"	Sept.	30, 1904	5,000 00	
Brockton	City	"	4s,	"	Dec.	1, 1904	4,000 00	
Quincy	"	"	4s,	"	July	1, 1905	7,000 00	
Haverhill	"	"	4s,	"	Oct.	1, 1905	50,000 00	
Brockton	"	"	4s,	"	Dec.	1, 1905	4,000 00	
Gloucester	"	"	4s,	"	May	1, 1906	2,000 00	
Quincy	"	"	4s,	"	July	1, 1906	1,000 00	
Fitchburg R. R. Co.			4s,	"	April	1, 1907	50,000 00	
Amounts carried forward							$237,000 00	$257,000 00

Amounts brought forward					$237,000 00	$257,000 00
Watertown	Town	Bonds,	3 1-2s,	Maturing Jan. 1, 1908 to 1922	85,000 00	
Somerville	City	"	4s,	" July 1, 1908	8,000 00	
Belmont	Town	"	4s,	" Oct. 1, 1908	15,000 00	
Medford	City	"	4s,	" Dec. 15, 1908	10,000 00	
New Bedford	"	"	3 1-2s,	" Feb. 1, 1909	40,000 00	
Pawtucket, R. I.	"	"	4s,	" July 1, 1909	30,000 00	
Beverly	"	"	4s,	" July 1, 1911	9,000 00	
Medford	"	"	4s,	" July 1, 1911	26,000 00	
Boston & Lowell R.R. Co.			4s,	" Feb. 1, 1913	1,000 00	
Medford	City	"	4s,	" July 1, 1915	23,000 00	
Melrose	"	"	4s,	" Feb. 24, 1916	10,000 00	
Brockton	"	"	3 1-2s,	" July 1, 1916	5,000 00	
Boston & Lowell R.R. Co.			4s,	" July 1, 1916	10,000 00	
Fitchburg R. R. Co.			4s,	" July 1, 1916	10,000 00	
Marlborough	City	Bonds,	4s,	" July 1, 1918	10,000 00	
Medford	"	"	4s,	" Aug. 1, 1918	50,000 00	
Stoughton	Town	"	4s,	" June 1, 1920	2,000 00	
Reading	"	"	4s,	" June 1, 1922	5,000 00	
"	"	"	4s,	" June 1, 1923	5,000 00	
Medford	City	"	4s,	" July 1, 1923	2,000 00	
Old Colony R R. Co.			4s,	" Dec. 1, 1925	50,000 00	
Fitchburg R. R. Co.			4s,	" Mar. 1, 1927	40,000 00	
						683,000 00
						940,000 00
Cash in bank on interest						81,466 00
						$1,021,466 00

To the Board of Commissioners of the Sinking Funds of the City of Cambridge:

Your Committee appointed to examine the accounts of the Treasurer of the Funds reports that his books are carefully kept and his accounts are properly vouched. We have computed the cash and bond transactions for the year, independently of the Treasurer's books, and have figured the interest which has accrued, thus proving his accounts accurate.

The transactions of the Treasurer and the sub-committee on investment during the year, and the present condition of the Funds is shown by the following exhibit.

BOND ACCOUNT.

Amount of bonds in the Funds, November 30, 1899	$930,500 00	
Amount of bonds purchased during the year	10,000 00	
	$940,500 00	
Amount of bonds matured during the year	500 00	
Amount of bonds in the Funds, at par value, Nov. 30, 1900		$940,000 00

CASH ACCOUNT.

Cash on hand November 30, 1899	$233 90		
Cash received from the City Treasurer derived from taxation	151,324 00		
Cash received, interest on investments	39,587 66		
Cash received from matured bonds	500 00		
		$191,645 56	
Cash paid for bonds purchased	$10,000 00		
Cash paid for premium on bonds purchased	124 00		
Amounts carried forward	$10,124 00	$191,645 56	$940,000 00

Amounts brought forward . . .	$10,124 00	$191,645 56	$940,000 00
Cash paid for accrued interest on bonds purchased	55 56		
Amount paid to City Treasurer to redeem City Debt falling due this year .	100,000 00		
		110,179 56	
Cash on hand November 30, 1900, deposited in the First National Bank of Cambridge			81,466 00
Total amounts of the Funds, November 30, 1900			$1,021,466 00

FRANK A. ALLEN,
JOHN C. BULLARD, } *Committee on Accounts.*

The bonded City Debt which the foregoing Sinking Funds are to pay, matures as follows, viz.: —

Jan. 1, 1901, Schoolhouse	4s	$100,000 00
July 1, 1901, Schoolhouse	4s	60,000 00
July 1, 1901, Bridge	4s	15,000 00
May 2, 1902, Street	4s	55,000 00
May 2, 1902, Building	4s	20,000 00
Nov. 1, 1902, Paving	4s	50,000 00
Nov. 1, 1902, Schoolhouse	4s	20,000 00
July 1, 1903, Sewer	6s	136,000 00
July 1, 1903, Street widening . . .	6s	10,000 00
Nov. 1, 1903, Building	4s	40,000 00
July 1, 1904, Sewer	6s	295,000 00
July 1, 1904, Street widening . . .	6s	90,000 00
Aug. 1, 1904, City	4s	52,000 00
July 1, 1905, Sewer	6s	144,000 00
July 1, 1905, Street widening . . .	6s	14,000 00
Aug. 1, 1905, Cemetery	4s	65,000 00
Nov. 1, 1907, Sewer	4s	30,000 00
Nov. 1, 1907, Paving	3½s	20,000 00
Nov. 1, 1907, Schoolhouse	3½s	9,500 00
Nov. 1, 1907, Street	3½s	11,000 00
Aug. 1, 1908, City	3½s	4,900 00
July 1, 1909, City	3½s	45 000 00
Nov. 1, 1909, Sewer	4s	22,000 00
Nov. 1, 1909, City	3½s	32,000 00
May 1, 1910, Sewer	4s	15,000 00
Nov. 1, 1910, Cemetery	3½s	7,000 00
Nov. 1, 1910, City	3½s	36,000 00
July 1, 1911, Sewer	4s	15,000 00
July 1, 1911, Clay Land	4s	50,000 00
Nov. 1, 1912, Clay Land	3½s	20,000 00
Aug. 1, 1913, Clay Land	3½s	10,000 00
July 1, 1914, Clay Land	3½s	17,000 00
Aug. 1, 1914, Building	4s	118,000 00
Aug. 1, 1914, Street	4s	30,000 00
Oct 1, 1915, Building	4s	60,000 00
Oct. 1, 1915, Street	4s	60,000 00
July 1, 1916, Building	4s	70,000 00
Amount carried forward		$1,848,400 00

Amount brought forward			$1,848,400 00
Oct. 1, 1916, Street	4s	137,000 00	
Oct. 1, 1916, Building	4s	33,000 00	
Oct. 1, 1916, Sewer	4s	75,000 00	
Oct. 1, 1916, Schoolhouse	4s	6,000 00	
July 1, 1917, Schoolhouse	3½s	100,000 00	
Oct. 1, 1917, Harvard Bridge	4s	10,000 00	
May 2, 1918, Schoolhouse	3½s	100,000 00	
May 2, 1918, Street	3½s	15,000 00	
June 1, 1918, Schoolhouse	3½s	50,000 00	
July 1, 1918, Harvard Bridge	4s	100,000 00	
Aug. 1, 1918, Schoolhouse	3½s	142,000 00	
Sept. 1, 1918, Harvard Bridge	4s	100,000 00	
Mar. 1, 1919, Harvard Bridge	4s	115,000 00	
July 1, 1919, Schoolhouse	3½s	42,000 00	
Nov. 1, 1919, Street	3½s	5,000 00	
Nov. 1, 1919, Schoolhouse	3½s	13,000 00	
Nov. 1, 1920, Harvard Bridge	4s	5,000 00	
Nov. 1, 1920, Street	3½s	21,000 00	
July 1, 1921, Harvard Bridge	4s	60,000 00	
Aug. 1, 1923, Harvard Bridge	4s	10,000 00	
Feb. 1, 1924, Park	4s	360,000 00	
Aug. 1, 1924, Sewer	4s	75,000 00	
Oct. 1, 1925, Sewer	4s	60,000 00	
Aug. 1, 1926, Park	4s	100,000 00	
Oct. 1, 1926, Park	4s	40,000 00	
Nov. 1, 1929, Sewer	3½s	42,000 00	
July 1, 1930, Sewer	3½s	100,000 00	
Aug. 1, 1935, Park	4s	100,000 00	
Feb. 1, 1936, Park	4s	100,000 00	
Sept. 1, 1937, Park	3½s	100,000 00	
Nov. 1, 1937, Charles River Improvement	3½s	50,000 00	
June 1, 1938, Park	3½s	50,000 00	
Aug. 1, 1938, Park	3½s	50,000 00	
Aug 1, 1938, Charles River Improvement	3½s	50,000 00	
July 1, 1939, Cambridge Bridge	3½s	50,000 00	
Aug. 1, 1939, Park	3½s	100,000 00	
July 1, 1940, Cambridge Bridge	3½s	100,000 00	
July 1, 1940, Park	3½s	50,000 00	
Nov. 1, 1940, Park	3½s	50,000 00	
		———	$4,614,400 00

City Bonds have been issued during the year to the amount of $364,000.00 for the following purposes : —

Parks	$100,000 00	
New bridge	100,000 00	
Improved sewerage	100,000 00	
Sanitaries	36,000 00	
Street extension and widening	21,000 00	
Filling pond in cemetery	7,000 00	
	———	$364,000 00

Schoolhouse Bonds to the amount of $100,000.00 matured May 1st, and were paid from this Fund. The total amount of City Debt proper,

now outstanding, is $4,614,400.00 in bonds which were issued for the following purposes: —

Parks	$1,200,000 00	
Sewers	1,009,000 00	
Schoolhouses	798,500 00	
Bridges	565,000 00	
Streets	518,000 00	
Public buildings	185,000 00	
City loans	176,900 00	
Clay lands	97,000 00	
Cemetery lands	65,000 00	
		$4,614,400 00

Deducting the present assets of this Fund $1,021,466.00 leaves the net amount of the Bonded City Debt, exclusive of the Water Debt, November 30, 1900, $3,592,934.00, showing a net increase of debt during this year, above the additions to the Fund, of $173,267.90. The valuation of the City, real and personal, as found by the assessors, is $94,466,930.00, an increase of $2,924,135.00 above the valuation of 1899. There will be due this Fund, from taxation for 1901, the sum of $158,851.83. There will mature in 1901 bonds to the amount of $175,000.00, which will be paid from this Fund.

Near the end of this financial year Hon. Charles H. Saunders resigned his position as member and Chairman of this Board, both of which positions he had held continuously since the Board was established, a period of twenty-five years. In addition to the sum of $447,190.61, transferred to this Board from a previous Sinking Fund, there has been received during Mr. Saunders connection with the Board $2,903,011.50 from taxation, and $871,853.86 from interest on investments, making a total of $4,222,055.97. Payments have been made of $37,589.97 for premiums on bonds purchased, and $3,163,000.00 for redemption of City Bonds as they became due, leaving the present amount of the Fund $1,021,466.00, as appears by this report. Mr. Saunders has devoted a great deal of his time to this Fund, always insisting upon securing the highest and safest class of investments and using his best efforts to keep all income received promptly and securely invested. While this long and faithful service of Mr. Saunders fairly entitles him to a period of rest from such public duties, this Board desires to place on record its deep regret in losing his services, and its high appreciation of them, with its best wishes for his future good health.*

Under an ordinance adopted the present year the Sinking Fund of the Cambridge Water Works has been transferred to this Board from the

* Mr. Dana W. Hyde has been appointed and comfirmed as the successor of Mr. Saunders in our Board, and the Board has since elected as its Chairman the Hon. Frank A. Allen.

former *ex officio* Board of Trustees, the latter consisting of the Mayor, the President of the Common Council and the City Treasurer. This Fund, amounting to $604,326.58 ($587,100.00 in bonds and $17,226.58 in cash), has been received by this Board from said Trustees. Hereafter the care of this Fund will devolve upon this Board and a report of its condition will be made annually in addition to the report of the Sinking Funds of the City.

Respectfully submitted,

FRANK A. ALLEN,
JOHN C. BULLARD,
ANDREW J. LOVELL,
J. HENRY RUSSELL,
DANA W. HYDE,
GEORGE H. HOWARD,

Commissioners of the Sinking Funds of the City of Cambridge.

REPORT OF THE TRUSTEES OF THE SINKING FUND OF THE CAMBRIDGE WATER WORKS

To the Honorable, the City Council:—

The undersigned, Trustees of the Sinking Fund of the Water Works, herewith submit the annual report of the Fund committed by law to their charge. The report covers the year ending November 30, 1900.

DR.

Amount of the Fund, November 30, 1899, was . . .	$465,583 82	
Received during the year as follows:—		
From the Treasurer of the City of Cambridge, the annual required appropriation from the water rates, viz.	125,089 12	
From interest on investments	19,305 83	
		$609,978 77

CR.

Amount paid for accrued interest on investments purchased	$955 49	
Amount paid for premiums on investments purchased	4,696 70	
Leaving the amount of the Fund, November 30, 1900 . .	604,326 58	
		$609,978 77

By an ordinance passed during the present year, the custody and management of this Fund is to be vested hereafter in the Board of Sinking Fund Commissioners. Before this report is transmitted, a transfer of the Fund will have been made to said Commissioners.

EDGAR R. CHAMPLIN,
JOHN D. MERRILL,
WM. W. DALLINGER,
Trustees of the Sinking Fund of the Cambridge Water Works.

The following are the investments belonging to the funds: —

Cambridge	City	bonds	4s,	Maturing	Feb. 1, 1913	$2,000 00
"	"	"	4s,	"	Oct. 1, 1916	65,100 00
"	"	"	3 1-2s,	"	Dec. 1, 1917	40,000 00
"	"	"	3 1-2s,	"	Nov. 1, 1919	20,000 00
"	"	"	4s,	"	Nov. 1, 1920	5,000 00
Amount carried forward						$132,100 00

Amount brought forward							$132,100 00
Lynn	City	bonds	4s,	Maturing	Jan. 1, 1905	$19,000 00	
Brookline	Town	"	3 15-100s,	"	Apr. 1, 1906	20,000 00	
Providence, R. I.	City	"	5s,	"	July 1, 1906	50,000 00	
Hull	Town	"	4s,	"	May 1, 1908	5,000 00	
Methuen	"	"	4s,	"	Aug. 1, 1908	10,000 00	
New Bedford	City	"	3 1-2s,	"	Feb. 1, 1909	16,000 00	
Methuen	Town	"	4s,	"	Aug. 1, 1909	15,000 00	
Taunton	City	"	3 1-2s,	"	June 1, 1910	21,000 00	
Somerville	"	"	4s,	"	July 1, 1910	8,000 00	
Lynn	"	"	4s,	"	Jan. 1, 1915	16,000 00	
Wellesley	Town	"	4s,	"	Mar. 1, 1917	2,000 00	
Waltham	City	"	4s,	"	Apr. 1, 1917	24,000 00	
Hallowell, Me.	"	"	4s,	"	Jan. 1, 1918	15,000 00	
Wellesley	Town	"	4s,	"	Mar. 1, 1918	1,000 00	
Penobscott Shore Line R. R. Co.			4s,	"	Aug. 1, 1920	25,000 00	
Fitchburg R. R. Co.			3 1-2s,	"	Oct. 1, 1920	50,000 00	
Quincy	City	bonds	4s,	"	May 1, 1923	2,000 00	
"	"	"	4s,	"	May 1, 1924	1,000 00	
"	"	"	4s,	"	May 1, 1925	2,000 00	
"	"	"	4s,	"	May 1, 1926	3,000 00	
"	"	"	4s,	"	May 1, 1927	3,000 00	
Attleborough	Town	"	4s,	"	July 1, 1927	10,000 00	
Quincy	City	"	4s,	"	May 1, 1928	3,000 00	
Winchester	Town	"	4s,	"	June 1, 1928	6,000 00	
Quincy	City	"	4s,	"	May 1, 1929	3,000 00	
Fall River	"	"	3 1-2s,	"	Nov. 1, 1929	75,000 00	
Quincy	"	"	4s,	"	May 1, 1930	3,000 00	
"	"	"	4s,	"	May 1, 1931	3,000 00	
"	"	"	4s,	"	May 1, 1932	1,000 00	
Newton	"	"	4s,	"	Aug. 1, 1935	2,000 00	
"	"	"	4s,	"	July 1, 1936	11,000 00	
Grafton	Town	"	3 1-2s,	"	July 1, 1937	1,000 00	
Old Colony R. R. Co.			4s,	"	Jan. 1, 1938	25,000 00	
Grafton	"	"	3 1-2s,	"	July 1, 1938	2,000 00	
"	"	"	3 1-2s,	"	July 1, 1939	2,000 00	
							$455,000 00
							587,100 00
Cash in bank							17,226 58
							$604,326 58

The Bonded Water Debt, which the foregoing Fund is to pay, matures as follows:—

Nov. 1, 1906	3 1-2s	$43,000 00	
Oct. 1, 1907	4s	90,000 00	
Nov. 1, 1907	4s	22,000 00	
July 1, 1908	4s	46,000 00	
Aug. 1, 1908	4s	25,000 00	
July 1, 1909	4s	20,000 00	
May 1, 1910	4s	288,000 00	
July 1, 1910	4s	75,000 00	
Sept. 1, 1910	4s	125,000 00	
Jan. 1, 1911	4s	20,000 00	
Amount carried forward		$754,000 00	

Amount brought forward		$754,000 00	
Oct. 1, 1911	4s	35,000 00	
Jan. 1, 1912	4s	150,000 00	
May 2, 1912	4s	75,000 00	
Nov. 1, 1912	4s	45,000 00	
Feb. 1, 1913	4s	100,000 00	
Aug. 1, 1913	4s	50,000 00	
Apr. 1, 1915	4s	200,000 00	
Aug. 1, 1915	4s	200,000 00	
Apr. 1, 1916	4s	100,000 00	
July 1, 1916	4s	200,000 00	
Aug. 1, 1916	4s	100,000 00	
Oct. 1, 1916	4s	265,100 00	
Apr. 1, 1917	3 1-2s	200,000 00	
July 1, 1917	3 1-2s	100,000 00	
Nov. 1, 1917	3 1-2s	75,000 00	
Dec. 1, 1917	3 1-2s	140,000 00	
May 2, 1918	3 1-2s	50,000 00	
June 1, 1918	3 1-2s	60,000 00	
Nov. 1, 1918	3 1-2s	50,000 00	
Nov. 1, 1919	3 1-2s	23,000 00	
Nov. 1, 1920	3 1-2s	30,000 00	
Apr. 1, 1924	4s	300,000 00	
			$3,302,100 00

REPORT OF THE CAMBRIDGE WATER BOARD

CAMBRIDGE, December 15, 1900.

To the Honorable, the City Council of the City of Cambridge:—

The thirty-sixth annual report of the Cambridge Water Board, for the year ending November 30, 1900, is herewith submitted for your consideration.

The closing year of another century finds the City in the enjoyment of a public water supply, excellent in quality and sufficient in quantity, under the exercise of proper precautions, to last for many years to come. The life of the system cannot be predicted with entire accuracy, as it is dependent largely upon the growth of the population of the City, and of the growth and character of its manufacturing industries. It is sufficient for the present to say, that, if economy in the use of water is promoted by the measures at hand, the adoption of which has been urged upon the City Council by the Board during the past year, there is no need of apprehension for the immediate future.

The Board, aided by their Superintendent, have continued to watch with care all sources of contamination of the water, eliminating them so far as possible, and the condition of the water shows that little organic matter is now present and there is a marked improvement in color. The local Boards of Health have continued to assist the Water Board, in preventing injury to streams tributary to the reservoirs, and to the brooks that supply them, and while constant vigilance in that behalf is necessary, and always will be, we have reason to congratulate the City Council, upon the generally clean and wholesome character of the water-shed, from which the supply is derived.

FINANCIAL STATEMENT IN BRIEF.

The total cost of the Water Works to November 30, 1899, was .	$5,649,015 65
There was expended during the year on Construction account .	21,213 87
So that the total cost to November 30, 1900, was	$5,670,229 52

WATER BOND ACCOUNT.

The whole amount of bonds outstanding is		$3,302,100 00
Deducting from this sum the present value of the Water Debt Sinking Fund (not including the note of the City for $200,000, which the Trustees of the Sinking Fund designated in their report of 1898, as the "Contingent Loan Obligation of the City of Cambridge," and which they omitted to mention in their report of 1899)		$604,326 58
Leaves as the net Water Debt		$2,697,773 42
Further details of the financial operations of the department will be found in the statement of the Registrar which accompanies this report. From that statement it will appear that the excess of receipts over expenditures during the past year is the sum of		$14,332 11
The year 1899 closed with a small deficit of	$240 27	
The deficit of the year 1898 was	3,526 22	
Total deficit to date	$3,766 49	
Of which $240.27 is due the City Treasury and $3,526.22 is due the Water Works on Construction account.		
Deducting these sums		$3,766 49
Leaves as the net surplus on hand		$10,565 62

FRESH POND.

During the year the Board sent in a communication to the City Council stating that there would be a "surplus of receipts over expenditures," and asking for an appropriation for the purpose of completing a portion of the unfinished work around Fresh Pond. The portion referred to is a part of the original plan of 1897, and is an addition to the driveway around Fresh Pond. It begins at the driveway near the fountain at the gate house, ascending the hill, at an easy grade, to Huron Avenue, until an elevation of sixty-five feet above the City base is reached, and then, leaving Huron Avenue, sweeps around a curve in the shape of an irregular ellipse, from parts of which an extensive and beautiful view of the pond appears through the shrubbery, and then returns to Huron Avenue. The borders of Fresh Pond are among the most attractive features of our Park System, although under care of the Water Board, and, of the many thousands who visit them, it is probable that no one regrets the expenditure of the funds necessary to beautify and adorn them; nor would any one regret such expenditure even if the money were raised by taxation, much less when the expenditure can be met, as in this case from surplus receipts. The Board regret that the City Council did not see fit to make the appropriation, which the Board requested, and trust that their recommendation, which they now renew,

may receive favorable consideration during the coming year. Substantially nothing has been done to improve the borders of the Pond for two years, on account of lack of funds for the purpose, and there are several places which need early attention

WATER BASINS.

On the first day of December, 1899, the water in Hobbs Brook basin was five feet below high water mark; Stony Brook reservoir was about three feet below high water mark; and Fresh Pond also about three feet below. On the first day of December, 1900, the water in Hobbs Brook basin was three feet and seven-tenths below high water mark, Stony Brook was overflowing the dam, and Fresh Pond was about two feet below high water mark. This improvement over last year is an encouraging feature, although due in some slight degree to a larger rainfall. It is especially encouraging, however, owing to the fact that the principal cause of the gain in Fresh Pond is reduced consumption, caused by the use of meters and the consequent economy in the use of water. Inasmuch as Fresh Pond is the only storage basin into which the water from Stony Brook can be drawn, it is rather tantalizing to reflect that the overflow at Stony Brook into Charles River, during the year, has been 4,447,100,000 gallons, or nearly two years' supply for the entire City of Cambridge; but there is no means of saving and storing this overflow, and very little of it could be saved, even if Fresh Pond could be kept full by means of an additional conduit. As heretofore explained to the City Council, the capacity of the present conduit is insufficient to keep the Pond constantly full, owing to the increase in consumption since the conduit was built. After the construction of a new conduit, which will become necessary in the near future, and which, even with the aid of a meter system in checking consumption, cannot probably be postponed for more than ten years, it may be worth while to consider, as one of the problems of the future, the construction of a new storage basin, near the sources of Stony Brook, for the purpose of saving a portion of this overflow.

RAINFALL.

The total rainfall for the year at Fresh Pond was 46.89 inches, at Stony Brook 51.34 inches, at Hobbs Brook 45.89 inches.

For the purpose of comparison with preceding years, it is sufficient to take the rainfall of either place. The average annual rainfall at Fresh Pond for the last ten years is 43.45 inches. Consequently, the preceding year, judged by this standard, has not been a dry one, as a whole, although the summer months were extremely dry, and out of the ten years referred

to, only three have had a larger rainfall than the current year. For the purpose of convenient reference, we give here the annual rainfall at Fresh Pond for the last ten years.

1891	48.25	inches.
1892	44.85	"
1893	40.49	"
1894	35.85	"
1895	47.12	"
1896	38.82	"
1897	42.53	"
1898	52.42	"
1899	37.28	"
1900	46.89	"
Average	43.45	inches.

As an aid to the water supply for the current year, a more evenly distributed rainfall would have been of more value, for the unusual dryness of the summer months induced a very extensive and prolonged use of hose for watering lawns and gardens, and we should have had a larger total consumption for the year, except for economy in the use of water, induced by the use of meters.

CONSUMPTION OF WATER.

The total consumption of water for the year ending December 1, 1899, was	2,882,570,430	gallons.
During the year ending December 1, 1900, the consumption was	2,651,277,240	"
A saving in consumption during the current year of	231,293,190	gallons.

The population of the City in 1890 was 70,028. By the United States Census of 1900 it is 91,886, an increase of 21,858 in ten years. With a rapidly increasing population, and a storage basin sometimes shrinking, and at other times barely holding its own, it is clear that a scarcity of water in Fresh Pond is, or soon will be imminent, even though there may be an abundance in Hobbs Brook and Stony Brook Reservoirs, unless the supply in Fresh Pond can in some way be increased, or the consumption reduced. As one inch at Fresh Pond represents 5,000,000 gallons, if the amount this year saved (231,293,190 gallons) had been drawn from the Pond, it would have lowered it three feet and ten inches. Consequently, except for this reduction in consumption, Fresh Pond would now stand at five feet and ten inches below high water mark.

PROPOSED REMEDIES.

The Board considered this question so fully in its last annual report, and in special communications to the City Council during the year, also at public hearings before the City Council, that it will not be necessary to repeat what was then said, but we will briefly restate the substance of our views already expressed, and cite a few illustrations not then at hand, but afforded by subsequent events. One remedy for the existing danger is a new conduit from Stony Brook to Fresh Pond.

As is probably well known, all the water supplied to the City from Hobbs Brook Reservoir flows down in an open channel into Stony Brook, and then the two brooks united flow into Stony Brook Reservoir, and from thence the water is conducted through an iron pipe, 39,754 feet long, into Fresh Pond, whence it is pumped into Payson Park Reservoir, and there distributed into the service pipes. This pipe line was first put in use November 7, 1887. Its diameter is thirty-six inches for 4,826 feet of its length and for the remainder thirty inches. From the fact that the pipe has been kept full all the year, delivering water at its utmost capacity into Fresh Pond, and yet the Pond cannot be kept entirely full, it is obvious that the consumption of water has outgrown the capacity of the pipe, and that sooner or later a new conduit must be laid. The Board made inquiries of the City Engineer, as to the cost of a new pipe, and were informed that, while it was impossible to estimate the expense of the laying of the pipe without a preliminary survey, and a large number of borings, the cost would probably not be less than $500,000 —and might reach $600,000. For this sum bonds would have to be issued, if the Legislature, on application, should grant the right to issue bonds, and the interest and sinking fund requirements would have to be met by the water rates, or paid out of the tax levy. Although a new conduit must ultimately be laid, the time is inopportune, owing to the high price of iron pipe, and the Board recommends an alternative remedy, which, if adopted, may postpone the laying of the new pipe for about ten years, and save incidentally a large amount of interest and sinking fund payments, as well as enable the City to take advantage of lower prices of iron pipe, which must before many years be reached.

The alternative remedy is

REDUCTION OF CONSUMPTION BY THE USE OF METERS.

The experience of other cities which have adopted the meter system, shows that the average daily consumption of water *per capita* is about forty-five gallons, and there is no reason to believe that the experience of Cambridge would be any different from theirs. In fact, since the issue

of the last annual report of the Board events have shown that this statement is capable of demonstration. The following table shows the average daily consumption *per capita* in Cambridge during the past ten years :

1891	64.71 gallons.
1892	66. "
1893	74.50 "
1894	69.19 "
1895	71.65 "
1896	75.90 "
1897	76.46 "
1898	85.69 "
1899	87.16 "
1900	78.69 "

From this table it appears that, almost without exception, there has been a steady increase in consumption *per capita* from year to year, until we reach the year 1900. During that year the Board has set 270 meters, making the total number in use now 860, as compared with 619 in 1899, an addition of nearly one-third. In 1898, only 447 meters were in use, so that in the last two years the Board has nearly doubled the number of meters. The influence of these meters, few as they are, has been a striking object lesson. Nothing else can account for the decrease in consumption of 8.47 gallons *per capita* between 1899 and 1900. If, therefore, these few meters have reduced consumption to such an extent, it is plain, even without citing the experience of other cities, that a larger number of meters would still further reduce consumption, and thereby necessarily prolong the life of the system for many years. According to the latest report of the State Board of Health, there are eighty-two towns and cities in the Commonwealth which keep a record of their consumption of water. Some of these cities and towns use meters, others not, but the average daily consumption *per capita* of these eighty-two municipalities was, in 1899, only forty-nine gallons. The Metropolitan district, substantially unmetered, is included in this list. It is therefore a very conservative estimate which fixes the probable daily consumption of Cambridge, under a complete meter system, at forty-five gallons *per capita*. The experience of the Board in setting and taking readings from the meters, proves conclusively that the excess of consumption is almost wholly waste, caused by carelessness, or leaky water fixtures, and we have no reason to believe that any water taker will stint himself in the legitimate use of water merely because he takes it through a meter. In view of the fact that it

has been claimed that meters are unpopular, we have been surprised during the year by many applications for meters from householders and real estate owners, which we have had to refuse, owing to the lack of a sufficient appropriation for the purpose. Undoubtedly these applicants believe that their own particular water rates would be reduced by the use of meters, but, even if that should be the result, have they not a right to receive the benefit of their economy? It is clearly not just that *A*, with a family of ten, and water fixtures out of repair, should pay no more than *B*, with a family of two, and fixtures kept in order. The abstract justice of the meter system cannot be questioned.

So far as the total revenue under a meter system is concerned, there is reason to believe that there would be little or no loss. The result of the meters set for the two years prior to May, 1900, is that the water rates by meter readings were $9,810.90 as compared with $9,789.05, which the same water takers would have paid according to the usual schedule rates; the saving to some water takers, effected by careful use induced by the meters, being offset by the loss to other water takers caused by carelessness in use and leaky water fixtures.

It is a question for consideration, whether a smaller minimum rate should not be adopted, so as to make it an inducement to the water takers to save rather than to waste. That, however, is a matter of detail. It certainly seems equitable that a water taker should be permitted to save in water rates, if he desires to practice economy, and he cannot do this with a high minimum rate. A minimum rate of ten dollars or less, for illustration, might be adopted, at least as a temporary measure, to be changed if after events should require. The Board unanimously recommend a reasonable appropriation, for the purpose of purchasing and setting additional meters, as soon as possible.

ICE WATER FOUNTAINS.

The Board has continued to maintain the four ice water fountains, and during the year has expended the sum of $341.00 in the purchase of ice. This expenditure is not properly chargeable to Water Works maintenance, and the Board therefore request that the City Council make a suitable appropriation for ice, if it desires to have it furnished, and that such appropriation be not charged to the Water Department.

CHARGES FOR RENT OF OFFICES.

The Board remind the City Council that the Water Department is compelled to pay out of its receipts the sum of $1,200 for rent of its apartments in City Hall. No other department of the City is required

to pay any rent charges, and there seems to be no justice in such a charge. If the charge is made at all, the amount should be paid into the Sinking Fund of the Water Works, rather than into the City Treasury.

The earlier statutes of the Commonwealth directed that all the surplus of the water receipts, after payment of expenses of maintenance, should be paid into the Sinking Fund of the Water Works. The sum now required to be paid into the Sinking Fund, in addition to interest, is $3\frac{1}{2}$ per cent. of the face value of the outstanding water bonds. If there is anything left, after these payments, and payment of the expenses of maintenance, and the surplus or any part of it is paid into the City Treasury, instead of into the Sinking Fund, under color of charges to the Water Board which are not legitimate, it is obvious that the general tax payers profit at the expense of the water takers. But many water takers are not tax payers, and large tax payers often pay no more water rates than small tax payers, and so an obvious injustice is done. The only equitable distribution of surplus receipts, after providing for the maintenance of the works, is by reducing water rates, as soon as the amount of the surplus justifies that course.

The possibility of a large issue of bonds, for the purpose of laying a new conduit, requiring larger interest and sinking fund payments, renders it unwise, however, to expect or anticipate any further reduction in water rates at present.

Respectfully submitted,

WILLIAM B. DURANT,
GEORGE H. HOWARD,
STILLMAN F. KELLEY,
WELLINGTON FILLMORE,
EDMUND H. STEVENS,
} *Cambridge Water Board.*

REPORT OF THE WATER REGISTRAR

WATER REGISTRAR'S OFFICE,
CAMBRIDGE, December 5, 1900.

To the Cambridge Water Board:—

GENTLEMEN:—In compliance with the requirements of the City Ordinance, I present the thirty-sixth annual report of the operations of this department showing the receipts, expenditures and abatements, together with a statement of the number of water takers, etc., for the year ending November 30, 1900.

Amount of bills remaining unpaid, November 30, 1899:—

Water rates	$277 53
Meter rates	142 60
Supplies and repairs	943 32
Off and on	118 00
Seals	2 00
Maintenance account	676 03
Construction account	76 38

Amount of bills placed in hands of City Treasurer for collection from November 30, 1899, to November 30, 1900:—

Water rates	$229,325 91	
Meter rates	97,808 01	
Supplies and repairs	5,194 06	
Off and on	824 00	
Rents	168 00	
Seals	188 25	
Maintenance account	3,133 00	
Construction account	62 10	
Total bills		$338,939 21

There has been collected:—

Water rates	$224,808 66
Meter rates	97,612 66
Supplies and repairs	5,404 25
Off and on	782 00
Rents	168 00
Seals	183 00
Maintenance amount	3,082 73
Construction account	62 10

There has been abated :—

Water rates, off and on, and seals	$4,959 20	
Supplies and repairs	171 42	

There remains uncollected :—

Water rates	$141 55	
Meter rates	59 00	
Supplies and repairs	561 71	
Off and on	134 00	
Seals	6 25	
Maintenance account	726 30	
Construction account	76 38	
		$338,939 21

EXPENDITURES.

Construction account (general)	$16,999 60	
Construction account (Fresh Pond Reservoir)	55 25	
Construction account (Hobbs Brook Reservoir)	2,585 63	
Construction account (service of City Solicitor)	500 00	
Maintenance account (general)	64,186 26	
Maintenance account (rent of offices)	3,200 00	
Supply account	5,739 73	
		$93,266 49

ABATEMENTS.

Water rate bills to the amount of	$4,959 20	
Supply and repair bills to the amount of	171 42	
		$5,130 62

REFUNDS.

Water rates to the amount of	$2,941 95	
Which amount deducted from receipts	322,421 32	
Leaves net receipts for water	$319,479 37	
Add off and on, fines, rents, seals, and Maintenance account	4,215 73	
Makes net receipts of rates, fines, etc.		$323,695 10

OFF AND ON.

Water has been shut off for non-payment of rates, or per order on account of vacancy, and seals have been applied to fixtures by request of owners, as follows : —

Water shut off in 1900	743
Supplies let on, shut off in 1900	606
Supplies let on, shut off in previous years	84
New supplies let on	155
Seal locks applied to fixtures in 1900	1125
Seal locks removed, put on in 1900	553
Seal locks removed, put on in previous years	518

Statement of yearly revenue received from water rates since the purchase of the works by the City: —

From April 28, 1865, to December 1, 1865	$32,367 19
From December 1, 1865, to December 1, 1866	40,073 27
From December 1, 1866, to December 1, 1867	53,733 62
From December 1, 1867, to December 1, 1868	63,747 42
From December 1, 1868, to December 1, 1869	76,149 30
From December 1, 1869, to December 1, 1870	92,605 95
From December 1, 1870, to December 1, 1871	111,782 65
From December 1, 1871, to December 1, 1872	127,201 30
From December 1, 1872, to December 1, 1873	146,117 32
From December 1, 1873, to December 1, 1874	153,634 27
From December 1, 1874, to December 1, 1875	138,880 37
From December 1, 1875, to December 1, 1876	179,166 76
From December 1, 1876, to December 1, 1877	154,843 59
From December 1, 1877, to December 1, 1878	157,443 91
From December 1, 1878, to December 1, 1879	164,681 90
From December 1, 1879, to December 1, 1880	173,325 49
From December 1, 1880, to December 1, 1881	170,062 73
From December 1, 1881, to December 1, 1882	177,430 80
From December 1, 1882, to December 1, 1883	179,361 89
From December 1, 1883, to December 1, 1884	161,526 27
From December 1, 1884, to December 1, 1885	185,544 36
From December 1, 1885, to December 1, 1886	199,404 43
From December 1, 1886, to December 1, 1887	204,748 64
From December 1, 1887, to December 1, 1888	211,156 27
From December 1, 1888, to December 1, 1889	221,124 70
From December 1, 1889, to December 1, 1890	231,116 32
From December 1, 1890, to December 1, 1891	227,054 53
From December 1, 1891, to December 1, 1892	237,527 08
From December 1, 1892, to December 1, 1893	242,219 78
From December 1, 1893, to December 1, 1894	250,032 71
From December 1, 1894, to December 1, 1895	268,813 62
From December 1, 1895, to December 1, 1896	281,030 00
From December 1, 1896, to December 1, 1897	291,457 62
From December 1, 1897, to December 1, 1898	297,129 78
From December 1, 1898, to December 1, 1899	302,569 00
From December 1, 1899, to December 1, 1900	319,479 37

RECEIPTS.

The receipts for water as given in the above statement show a gain of nearly $17,000 as compared with the collections for 1899. The normal gain is about $10,000 per annum, the increase being largely due to greatly increased receipts from meters set to cover domestic consumption, in places where leaks and waste were permitted to continue.

All the annual water rate charges have been paid, the only charges remaining unpaid being for additional fixtures ($141.55) and for metered water ($59.00), in all, $200.55, out of a total of $327,000.00.

Comparative Statement.

	1899		1900	
Construction Account. (Hobbs Brook Reservoir.)				
Received.				
From bonds issued	$13,500 00		$9,500 00	
From sale of grass, feed, old material, etc	65 00			
		$13,565 00		$9,500 00
Expended.				
Construction of reservoir, land settlement, etc	$11,874 17		$2,585 65	
Services of City Solicitor			500 00	
Balance of appropriation	1,690 83		6,414 35	
		$13,565 00		$9,500 00
Construction Account. (Fresh Pond Land.)				
Received.				
From bonds issued	$500 00			
		$500 00		
Expended.				
Settlement for land taken, etc	$415 00			
Balance of appropriation	85 00			
		$500 00		
Construction Account. (Fresh Pond Reservoir.)				
Received.				
From bonds issued		$1,000 00	$500 00	
				$500 00
Expended.				
For work at Fresh Pond	$997 92		$55 25	
Balance of appropriation	2 08		444 75	
		$1,000 00		$500 00
Construction Account. (General.)				
Received.				
From bonds issued	$33,500 00		$20,000 00	
From premium on bonds			1,960 80	
From sale of pipe, fittings, etc	1,295 00		62 10	
		$34,795 00		$22,022 90
Expended.				
Sundry bills and pay rolls	$33,364 00		$16,999 60	
Balance of appropriation	1,431 00		5,023 30	
		$34,795 00		$22,022 90
Supply Account.				
Received.				
From pipe and labor on supplies		$6,592 26		$5,404 25
Expended.				
Sundry bills for stock and labor		6,346 06		5,739 73
Excess of receipts		$246 20		
Expenditures, excess of				$335 48
Maintenance Account.				
Received.				
From "rates, fines, etc"	$303,766 75		$320,612 37	
From sale of grass, old materials, etc	1,830 09		3,082 73	
Accrued interest on water bonds sold			61 25	
		$305,596 84		$323,756 33
Expended.				
Care and repairs	$61,690 81		$64,186 26	
Interest on water debt	130,674 00		127,179 00	
Sinking fund requirements	113,718 50		114,523 50	
Rent of offices			3,200 00	
		$306,083 31		$309,088 76
Deficit in receipts		$486 47		
Excess of receipts				$14,667 59

COMPARATIVE STATEMENT.—*Continued.*

1899	Maintenance account, excess of expenditures	$486 47	
	Supply account, excess of receipts	246 20	
	Excess of total expenditures over total receipts		$240 27
1900	Maintenance account, excess of receipts	$14,667 59	
	Supply account, excess of expenditures	335 48	
	Excess of total receipts over total expenditures		$14,332 11

From the excess of receipts shown above, amounting to $14,332.11, has been deducted the amount of the deficit of the past two years ($3,766.49), and the balance of excess receipts, $10,565.62, has been carried to the sinking fund as required by law.

In addition to the manufactories, business blocks, houses, etc., supplied through meters, water is supplied to 19,993 families, 798 stables, 2,964 horses, 178 cows, 286 shops and 626 stores and offices, by the following fixtures, viz: —

23,747 faucets,	71 urinals,
8,736 wash basins,	13 yard hydrants,
11,728 wash tubs,	5 fountains,
7,733 bath tubs,	31 tumbler washers,
262 slop closets,	2,167 hand hose,
20,325 pan closets,	10 motors.
2 hopper closets,	

Also,

968 fire hydrants (beside 19 on private premises).
8 fire reservoirs.
28 drinking fountains in public squares.
59 street watering standpipes.
4 public sanitaries.

The above schedule of fixtures does not include those in schoolhouses, engine houses, police stations, and other City buildings, or where the use of water is covered by meter.

The usual house-to-house inspection has been made with very satisfactory results.

Respectfully submitted,

WALTER H. HARDING,
Registrar.

ANNUAL STATEMENT OF THE WATER REGISTRAR TO THE COMMITTEE ON ACCOUNTS, DECEMBER 1, 1900

Water rates unpaid November 30, 1899	$420 15		
Supplies and repairs unpaid November 30, 1899	943 32		
Off and on bills unpaid November 30, 1899	118 00		
Seals unpaid November 30, 1899	2 00		
Maintenance account unpaid November 30, 1899	676 03		
Construction account unpaid November 30, 1899	76 38		
		$2,235 88	
Bills placed in hands of City Treasurer for collection from December 1, 1899, to December 1, 1900:—			
Water rates from annual ledgers	$219,840 25		
Water rates from fractional ledger	9,485 66		
Water rates from meter ledger	97,808 01		
Off and on water	824 00		
Rent	168 00		
Seals	188 25		
Supply and repair bills	5,194 06		
Maintenance account	3,133 00		
Construction account	62 10		
		$336,703 33	
Total bills			$338,939 21
There has been collected:—			
Annual ledgers	$217,380 85		
Fractional ledger	7,427 81		
Meter ledger	97,612 66		
Off and on ledger	782 00		
Rent ledger	168 00		
Seals ledger	183 00		
Maintenance account	3,082 73		
Construction account	62 10		
Supply and repair account	5,404 25		
Total collections		$332,103 40	
There has been abated:—			
Water rates, off and on, and seals	$4,959 20		
Supply account	171 42		
		5,130 62	

There remains uncollected :—

Water rates	$200 55		
Supplies and repairs	561 71		
Off and on	134 00		
Seals	6 25		
Maintenance account	726 30		
Construction account	76 38		
		1,705 19	
Total bills for collection		$338,939 21	
Less abated	$4,959 20		
Less refunded	2,941 95		
Less unpaid	1,705 19		
		$9,606 34	
Net receipts			$329,332 87

Attest: WALTER H. HARDING,
Registrar.

CAMBRIDGE, December 15, 1900.

I have examined the accounts of the Water Registrar and find that they correspond in the amounts collected, abated, refunded and uncollected with the statement submitted by the City Treasurer and verified by the City Auditor.

STILLMAN F. KELLEY,
Committee on Accounts.

CITY OF CAMBRIDGE,
OFFICE OF CITY TREASURER,
December 1, 1900.

To the Cambridge Water Board:

GENTLEMEN: — I give you herewith a record of the transactions between the Water Office and the City Treasurer's Office during the year ending November 30, 1900.

Gross collections for account of Water Works, "Rates, Fines, etc."	$328,513 52
Abatement certificates received and paid on "Water Rates" . .	4,959 20
Gross collections for account of Water Works, "Supply Account" .	5,575 67
Abatement certificates received and paid on "Supply Account" .	171 42
"Refund" certificates have been presented and paid to the amount of	2,941 95
Uncollected bills in my hands November 30, 1900, for account of "Maintenance," "Construction" and "Water Rates," amount to .	1,143 48
Uncollected bills in my hands November 30, 1900, for account of "Supplies, Repairs, etc.," amount to	561 71
Gross collections for account of Water Works, "Construction"	62 10
Gross collections for account of Water Works, "Maintenance" .	3,082 73

Very respectfully,

WM. W. DALLINGER,
City Treasurer.

I have examined the above statement and find it correct.

HARRY T. UPHAM,
City Auditor.

REPORT OF THE SUPERINTENDENT OF WATER WORKS

CAMBRIDGE, December 1, 1900.

To the Honorable Water Board of the City of Cambridge:

GENTLEMEN: — Complying with the City Ordinance, I herewith submit the twenty-sixth annual report of the Superintendent, for the year ending November 30, 1900.

CONSUMPTION.

Total quantity of water pumped during the past year	2,651,277,240	gallons.
Daily average water pumped during the past year	7,263,773	"
Quantity of water sold by meter	714,612,292	"
Quantity of water used for sprinkling streets	93,182,900	"
Quantity of water used for flushing sewers	1,250,000	"
Quantity of water used for cleaning sanitaries	7,500,000	"
Quantity of water used for drinking fountains	35,000,000	"
Total	851,545,192	gallons.
Leaving for domestic purposes	1,799,732,048	gallons.

Number of gallons daily for each inhabitant on the total amount pumped, 78.69.

Number of gallons daily for each inhabitant on the total amount used for domestic purposes, including water for private stables, hose, public buildings and fire purposes, 53.42.

COMPARATIVE STATEMENT OF TOTAL PUMPING DURING THE PAST TEN YEARS.

Date.	Total Yearly Pumping.	Increase or Decrease.	Average Daily Pumping.	Increase or Decrease.	Gallons to each inhabitant daily.
1891.....	1,778,056,773	139,506,261 increase.	4,871,388	382,209 increase.	64.71
1892.....	1,961,362,760	183,305,987 "	5,35[illegible],915	487,527 "	66.00
1893.....	2,234,863,924	273,501,164 "	6,122,915	764,000 "	74.50
1894.....	2,127,878,627	106,985,297 decrease.	5,829,804	293,111 decrease.	69.19
1895.....	2,190,781,892	62,903,265 increase.	6,002,142	172,338 increase.	71.65
1896.....	2,413,506,557	222,724,665 "	6,594,280	592,138 "	75.90
1897.....	2,441,340,196	27,833,639 "	6,688,603	94,323 "	76.46
1898.....	2,792,321,110	350,980,914 "	7,650,195	961,592 "	85.69
1899.....	2,882,570,430	90,249 320 "	7,897,453	247,258 "	87.16
1900.....	2,651,277,240	231,293,190 decrease.	7,263,773	633,680 decrease.	78.69

COMPARATIVE STATEMENT OF DOMESTIC PUMPING DURING THE PAST TEN YEARS.

Date.	Domestic Yearly Pumping.	Increase or Decrease.	Average Daily Pumping.	Increase or Decrease.	Gallons to each inhabitant daily.
1891.....	1,270,360,425	53,298,413 increase.	3,480,439	146,023 increase.	46.24
1892.....	1,426,400,135	156,039,710 "	3,897,268	416,829 "	48.00
1893.....	1,668,235,574	241,835,439 "	4,570,509	673,241 "	55.61
1894.....	1,547,943,977	120,291,597 decrease.	4,240,942	329,567 decrease.	50.34
1895....	1,530,152,817	17,791,160 "	4,192,199	48,743 "	50.04
1896.....	1,730,224,007	200,071,190 increase.	4,727,388	535,189 increase.	54.42
1897.....	1,740,357,346	10,133,339 "	4,768,102	40,714 "	54.50
1898.....	2,064,438,585	324,081,239 "	5,655,996	887,894 "	63.35
1899.....	2,085,998,805	21,560,220 "	5,715,070	59,074 "	63.08
1900.....	1,799,732,048	286,266,757 decrease	4,930,772	784,298 decrease.	53.42

Total amount of coal consumed (in pounds)	3,866,975
Daily average coal consumed (in pounds)	10,594
Coal consumed per million gallons pumped	1,458
Highest water elevation in Fresh Pond was on April 23 . .	17.46
Lowest water elevation in Fresh Pond was on September 16 . .	13.96
Average height of water in Fresh Pond	15.47
Highest water elevation in Stony Brook Reservoir was on March 2	82 81
Lowest water elevation in Stony Brook Reservoir was on July 9 .	77.04
Highest water elevation in Hobbs Brook Reservoir No. 1, Lincoln Street, was on March 17	182.08
Lowest water elevation in Hobbs Brook Reservoir No. 1, Lincoln Street, was on September 13	179.68
Highest water elevation in Hobbs Brook Reservoir No. 2, Winter Street, was on March 17	181.85
Lowest water elevation in Hobbs Brook Reservoir No. 2, Winter Street, was on January 10	175.10
Total rainfall at Fresh Pond Pumping Station	46.89
Total rainfall at Stony Brook Reservoir	51.34
Total rainfall at Hobbs Brook Reservoir	45.89

TOTAL RAINFALL FOR THE PAST TEN YEARS.

Month	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
December.....	4.40	6.78	1.23	5.23	4.43	1.90	1.63	4.31	2.	1.30
January.....	6.68	4.32	1.87	3.05	3.57	2.46	3.32	4.75	3.85	4.40
February.....	4.61	2.46	6.43	2.91	1.07	5.62	2.36	3.61	3.99	7.34
March.....	5.74	3.56	2.50	.84	2.68	4.37	2.66	2.03	5.94	5.10
April..... ...	2.72	.77	3.25	2.94	4.15	1.70	2.82	6.22	1.32	1.99
May.....	2.44	6.06	7.30	4.63	2.39	2.42	4.24	3.92	.77	5.52
June.....	4.01	4.23	2.18	.81	2.76	2.33	5.16	1.82	3.17	2.75
July.....	3.06	2.53	2.26	2.88	3.28	2.65	4.68	4.50	3.12	2.31
August..	3.68	6.11	5.95	1.63	4.71	2.45	5.06	7.34	3.21	2.80
September.....	2.73	1.84	1.76	2.40	1.83	6.29	3.22	1.78	4.63	4.40
October.....	5.10	2.15	3.77	5.19	10.16	3.10	.55	7.22	3.08	3.75
November.....	3.08	4.04	1.99	3.34	6.09	3.53	6.83	4.92	2.20	5.23
Total.....	48.25	44.85	40.49	35.85	47.12	38.82	42.53	52.42	37.28	46.89

FRESH POND AND SURROUNDINGS.

The work around the Pond has consisted of the usual care of roadways, walks, planted sections, grass plots, and the work in the nursery.

About sixteen hundred fifty-five ($1,655) dollars worth of stock has been sold from the nursery this year, as no appropriation was made for its use around the Pond.

The height of the Pond has been at an average of 15.47 feet. The weeding of the shallow portions has been done as rapidly as conditions would permit.

The buildings on Concord Avenue will need painting the coming season. The wood work of the gate houses has been painted.

A portion of the stone wall at the Belmont Cemetery has been rebuilt to conform to the established grade of Huron Avenue at that point.

FRESH POND RESERVOIR.

Date.	Lowest Elevation During Month.	Highest Elevation During Month.	Monthly Rainfall, Inches.	Intake Gate.			
				8-inch Opening.		30-inch Opening.	
				Opened.		Opened.	Closed.
1899.							
Dec. 2	14.17			During entire month.	28 turns.	During entire month, 30 ins.	
Dec. 30		14.61					
Dec.			1.30				
1900.							
Jan. 6	14.30			During entire month.	28 turns.	During entire month, 30 ins.	
Jan. 31		14.95					
Jan.			4.40				
Feb. 4	14.76			During entire month.	28 turns.	During entire month, 30 ins.	
Feb. 26		16.42					
Feb.			7.34				
Mar. 1	16.25			During entire month.	28 turns.	During entire month, 30 ins.	
Mar. 28		17.07					
Mar.			5.10				
Apr. 1	17.02			During entire month.	From 1st to 24th, 28 turns. From 25th to 31st, 9½ turns	To 25th, 30 ins.	April 25th.
Apr. 23		17.46					
Apr.			1.99				
May 30	16.87			During entire month.	To 11th, 9½ turns. From 11th to 15th, 21½ turns	May 18th 16 ins.	
May 21		17.24			From 15th to 18th, 28 turns. From 18th to 24th, 21½ turns.		May 20th.
May			5.52		From 24th to 31st, 9½ turns.		
June 12	16.15			During entire month.	From 1st to 4th, 21½ turns.	June 13th 30 ins.	
June 4		17.16			From 4th to 9th, 9½ turns.		
June			2.75		From 9th to 31st, 28 turns.		
July 31	15.01			During entire month.	28 turns.	During entire month, 30 ins.	
July 1		16.30					
July			2.31				
Aug. 30	14.51			During entire month.	28 turns.	During entire month, 30 ins.	
Aug. 1		14.90					
Aug.			2.80				
Sept. 16	13.96			During entire month.	28 turns. Closed Sept. 15th, from 11 A. M. to 4 P. M.	During entire month, 30 ins.	Sept. 15th. from 11 A. M. to 4 P. M.
Sept. 1		14.53					
Sept.			4.40				
Oct. 7	14.15			During entire month.	28 turns. Closed Oct. 19th, from 8 A. M. to 10 A. M.	During entire month, 30 ins.	Oct. 19th, from 8 A. M. to 10 A. M.
Oct. 29		14.64					
Oct.			3.75				
Nov. 15	14.41			During entire month.	28 turns.	During entire month, 30 ins.	
Nov. 30		14.89					
Nov.			5.23				

PUMPING STATION AND GROUNDS.

Engine No. 7 has had some slight repairs during the year and coils have been put into the second receiver in place of the tubes which were giving trouble from leaking. The machinery at the Station is in good condition and is performing very satisfactorily.

On November 14th the forty-inch to thirty-six inch flange reducer on the pumping main near the pumping Station broke at the flange; this necessitated pumping direct, with the Worthington and Blake engines, while repairs were being made.

The coal shed, two of the dwelling houses and the stable have been painted. The grounds have received the usual care and are in fair condition.

HIGHLAND STREET RESERVOIR.

The property remains in the same condition as at the last report. The grass on the banks has been cut and the walks cared for.

PAYSON PARK RESERVOIR.

The strainers on the outlet pipes from both basins, which were broken by the anchor ice last winter, have been replaced with copper ones and both basins cleaned out.

The twelve-inch pipe drain connected with the under-drains and mud-pipes has been extended about five hundred (500) feet through the land of the Hittinger Fruit Company. The banks and walks have received the usual care.

PIPE YARD.

The buildings at the pipe yard are in good condition, but will need painting the coming year.

PIPE BRIDGES.

The two twelve-inch lines of pipe across the new bridge over the Fitchburg Railroad at Massachusetts Avenue have been put in, connecting with the sixteen-inch main in Massachusetts Avenue on the north side of the bridge, and the ten-inch line on the south side.

HIGH SERVICE.

No extension has been made on the high service system during the year.

Following will be found a list of the streets that are at date supplied by the high service, November 30, 1900.

Agassiz Street.
Appleton Street, from Brattle Street to beyond Hutchinson Street.
Arlington Street.
Avon Hill Street.
Bates Street.
Bellevue Avenue.
Bellevue Avenue, west.
Brattle Street, from Appleton Street to Mason Street.
Brewster Street.
Buena Vista Park.
Centre Street.
Chatham Street.
Cleveland Street.
Dana Street, from Massachusetts Avenue to Broadway.
Dunster Street, from Massachusetts Avenue to Mt. Auburn Street.
Ellery Street, from Massachusetts Avenue to Broadway.
Garden Street, from Huron Avenue to Linnaean Street.
Garden Street, from Mason Street to Massachusetts Avenue.
Harvard Street, from Quincy Street to Dana Street.
Harvard College Campus.
Highland Street.
Hillside Avenue.
Holly Avenue.
Humbolt Street.
Huron Avenue, from Appleton Street to Raymond Street.
Lancaster Street.
Linnaean Street.
Mason Street.
Massachusetts Avenue, from Garden Street to Quincy Street.
Massachusetts Avenue, from near Trowbridge Street to Dana Street.
Mount Pleasant Street.
Mount Vernon Street.
Quincy Street, from Harvard Street to Broadway.
Raymond Street, from Linnaean Street to Walden Street.
Reservoir Street, from Highland Street.
Riedesel Avenue.
Sparks Street, from Huron Avenue to Brattle Street.
Upland Road, from Richdale Avenue to Huron Avenue.
Vassel Lane, from Huron Avenue.
Vincent Street.
Walnut Avenue.
Ware Street.
Washington Avenue.

LIST OF CHECK VALVES IN USE.

Appleton Street at Hutchinson Street.
Avon Hill Street and Linnaean Street.
Cambridge Street, on line of six-inch pipe crossing College Grounds.
Dana Street and Broadway.
Garden Street and Linnaean Street.
Linden Street and Bow Street.
Mt. Vernon Street, one hundred feet west from Massachusetts Avenue.
Prescott Street at Harvard Street.
Raymond Street and Linnaean Street.
Vincent Street at Walden Street.

In the streets following the check valves have been removed: Harvard Street, southeast from Bigelow Street, Lexington Avenue, Kirkland Street and Hancock Street.

These valves have not been in use for several years.

LEAKAGE.

Twenty-six hundred fifty-five (2,655) leaks have been cared for this year.

The account of this year's leaks exceeds that of 1899—which was our largest annual report—by one hundred ninety-three (193).

The special inspection, instituted last year for the detection of leaks has been continued with the above satisfactory results.

As in former years, the usual notice has been sent to the owners or occupant of premises where the waste has been discovered and the defects have been promptly attended to.

Twenty-five hundred seven (2,507) were found on the premises :—of these twenty-four hundred ninety-six (2,496) were reported by the inspectors.

One hundred thirty-one (131) were found in the streets :—

Three (3) on four-inch mains.

Three (3) on six-inch mains.

One (1) on eight-inch main.

Five (5) on ten-inch main.

Two (2) on twelve-inch mains.

One (1) on forty-inch main.

One (1) on forty by thirty-six inch reducer in gate chamber at Pumping Station.

One (1) on hydrant.

One (1) on fountain.

The leak on the forty-inch main is the first that has occurred on our forty-inch steel main :—it was located in the branch for the regulator valves on Huron Avenue.

The leak in the gate chamber just outside of the Pumping Station necessitated a change in the system of pumping and for seven days the City was supplied by pumping direct.

Ten (10) leaks have been caused by electrolysis this year :—the expense of the repairs has been charged to the Boston Elevated Railway Company as per agreement.

TABLE SHOWING A GAIN OR LOSS IN TOTAL CONSUMPTION FOR THE YEAR 1900 OVER THE YEAR 1899.

	Total Consumption 1900.	Total Consumption 1899.	Increase or Decrease, + or —.
December	204,553,360	250,320,840	—45,767,480
January	243,173,920	265,448,480	—22,274,560
February	199,942,120	269,707,680	—69,765,560
March	229,562,080	233,806,320	— 4,244,240
April	201,539,360	211,354,880	— 9,815 520
May	195,051,120	239,712,880	—44,661,760
June	225,405,400	259,134,040	—33,728,640
July	274,256,400	278,324,2 0	— 4,067,800
August	226,855,640	242,280,280	—15,424,640
September	224,104,760	226,769,400	— 2,664,640
October	224,248,580	210,751,390	+13,4*7,190
November	202,584,500	194,960,040	+ 7,624,460
Total	2,651,277,240	2,882,570,430	—231,293,190

MAIN PIPE.

Nine thousand, five hundred eighty-six (9,586) feet of main pipe have been laid this year; of this amount four hundred twelve (412) feet were renewals and nine thousand, one hundred seventy four (9,174) feet were extensions—in sizes from one and one quarter-inch to sixteen-inch.

The sixteen-inch cast iron pipe formerly located in Brookline Street and in the pipe bridge over the Brookline Bridge, has been relaid in Putnam Avenue from Brookline Street to Waverly Street; and in Waverly Street northeast to beyond Allston Street. This pipe was removed from the Brookline Bridge in 1899.

In Albany Street from Massachusetts Avenue, west, to Pacific Street a line of twelve-inch pipe has been laid and connected through Pacific Street to Sidney Street with a new eight-inch main. This new line will amply supply any demands called for in this vicinity for many years to come.

A double line of main pipe has been established in Massachusetts Avenue. A ten-inch line has been laid on the west side of the avenue extending from the old twelve-inch pipe, near the Boston and Albany tracks, south to the Esplanade (the four-inch pipe formerly occupying this location having been removed.) On the east side of the avenue a new eight-inch main has been connected to the eight-inch main at Vassar Street and laid to the Esplanade and cross connected to the ten-inch at this location and at the intersecting streets.

The location of the twelve-inch main pipe in Sherman Street at Railroad Street has been changed for the accomodation of the Sewer Department.

The old main in Kirkland Street at Masschusetts Avenue has been removed from the high service system.

In Green Street the twenty-inch main pipe has been raised for the accomodation of the Sewer Department.

Air cocks have been set in Walden Street at the bridge, on the forty-inch pipe in the cross over chamber, Huron Avenue, and two on sixteen-inch main in Putnam Avenue at Magazine Street.

In Highland Avenue, Hastings Street, Berkeley Place and Harold Place the blow-offs have been reset; in Rindge Avenue, lowered, and in Hampshire Street, Broadway and Cambridge Street, and Green Street at Magazine Street they have been repaired.

The usual annual inspection of blow-offs has been made and the locations, as usual, indicated.

A table of main pipe laid this year, with the gates and hydrants set, will be found on page 231.

The size, length and weight of main cast-iron pipe laid during the year are as follows : —

Size.	Length in Feet	Weight in Tons.
16-inch	1,486½	89.58
12-inch	1,656	64.31
10-inch	1,289	47.18
8-inch	2,182	46 75
6-inch	2,023	29.80
4-inch	861	7.30

All the hydrants and blow-offs were thoroughly blown off during the months of May and June and the same course will be pursued if possible during the coming months this winter. At the same time all main pipes throughout the City were carefully tested for leakage.

MAIN PIPE LAID, NUMBERS OF GATES AND FIRE HYDRANTS.

	Iron Pipe.		Gates.		Hydrants.	
	Length.	Size.	No.	Size.	No.	Kind.
	Feet.	Inch.		Inch.		
Albany St., from Mass. Ave. to Pacific	1,245	12				
" at Pacific, east			1	12		
" 310 feet east from Pacific	9	6			1	Chapman.
" 638 " east from Pacific			1	12		
" 708 " east from Pacific	9	6			1	Chapman.
" 64 " west from Mass. Ave. on blow off			1	6		
Amherst Ave., from Mass. Ave., west	305	6				
" at Mass. Ave., west			1	6		
" across Mass. Ave., west	75	6				
" at Mass. Ave., east of 10-inch			1	6		
" at Mass. Ave., east of 8-inch			1	6		
Baldwin St., 373 feet from Cambridge	6	6			1	Chapman.
Berkeley Place	72	4				
Berkshire Place, blow off	13	4				
Bird St., from Cushing Ave	219	6				
" at Cushing Ave			1	6		
" midway between Belmont and Cushing Ave	6	6			1	Chapman.
Cambridge St., at Fifth	3	8	1	8		
Camp St., from Fair Oaks	60	6				
Cushing Ave., from Bird, east	243	6				
" from Bird, west	221	4				
" at Bird, west			1	4		
Dana St., at Broadway	2	10				
"	7	6			1	Chapman.
East St., blow off	2	4				
Fair Oaks St., from Cameron	258	6				
" at Cameron		1	6			
First St., at Thorndike	3	12				
" " "	25	6			1	Boston.
Gorham St., at Wendell	7	6			1	Chapman.
Green St., 17 feet from Putnam Ave	17½	6			1	Chapman.
" 761 feet from Putnam Ave	17½	6			1	Chapman.
" from Lansdowne	81	6				
" at Lansdowne			1	6		
" between Lansdowne and Blanche	19	6			1	Chapman.
Holworthy Place, from Park Ave	121	4				
" at Park Ave			1	4		
Inman Place, from Jones Alley	51	1¼				
Kirkland St., at Cambridge	4	10	1	10		
Lowland Ave	36	2				

MAIN PIPE LAID, NUMBERS OF GATES AND FIRE HYDRANTS.—*Continued.*

	Iron Pipe.		Gates.		Hydrants.	
	Length.	Size.	No.	Size.	No.	Kind.
	Feet.	Inch.		Inch.		
Magee St., 389 feet east from Putnam Ave	6	6			1	Chapman.
May St., extension north-east from Vineyard	48	6				
Mass. Ave., at Amherst Ave., north					1	Chapman.
" at Amherst Ave., south					1	Chapman.
" from Esplanade to Vassar	1,245	10				
" from Esplanade to Vassar	1,201	8				
" at Esplanade, north					1	Chapman.
" at Esplanade, north					1	Chapman.
" at Porter's Pipe Bridge	296	12				
" at north end of Pipe Bridge			1	12		
" at north end of Pipe Bridge			1	12		
" at Princeton Ave., south					1	Chapman.
" at Princeton Ave., midway on 10-inch			1	8		
" at Princeton Ave., midway on 8-inch			1	8		
" at Princeton Ave., north			1	8		
" at Princeton Ave., north			1	10		
" at Princeton Ave., north					1	Chapman.
" from Upland Road, north	38	10				
" at Upland Road			1	10		
" at Vassar, south					1	Chapman.
" at Vassar, south					1	Chapman.
" at Wellesley Ave., south					1	Chapman.
" at Wellesley Ave., north					1	Chapman.
Pacific St., from Sidney to Albany	837	8				
" at Albany, north-west			1	8		
Park Ave	87	6				
"	82	6				
Princeton Ave., double line across Mass. Ave	130	8				
" east of 10-inch			1	8		
" east of 10-inch			1	8		
Putnam Ave., from Brookline to Waverly	839	16				
" at Brookline, south-east			1	16		
" at Brookline, south-east	6	6	1	6	1	Chapman.
" across Sidney	40	6				
" at Sidney, north-west on 6-inch line			1	6		
" at Sidney, north-west	6	6	1	6	1	Chapman.
" at Sidney, south-east on 6-inch line			1	6		
" at Waverly, north-west			1	16		
" at Waverly, north-west	6	6	1	6	1	Chapman.
" at Waverly, north-west on 6-inch connection			1	6		
" at Waverly, north west on 6-inch connection			1	4		
Sidney St., from Putnam Ave., north-east	26	12	1	12		
" from Putnam Ave., south-west	11	8	1	8		
Upland Road, from Richdale Ave., east	252	6				
" from Richdale Ave., east			1	6		
" near Richdale Ave	7	6			1	Chapman.
Van Norden St	20	6				
Vassar St., across Mass Ave	80	12				
" east of 10-inch			1	12		
Vine St., at Second	6	6			1	Chapman.
Waverly St., from Putnam Ave., north-east	6	12				
"	647½	16				
" between Erie and Allston	6	6			1	Perkins.
" near Erie	10	4				
" at Talbot	18	6				
Wellesley Ave., across Mass. Ave	69	6				
" west of 10-inch			1	6		
" east of 10-inch			1	6		
Yerxa Road, from Rindge Ave. to Van Norden	422	4				
" at Rindge Ave			1	4		
" at Van Norden			1	4		
Yorktown Court	2	1¼				

SUPPLIES.

Following is the list of establishments having fire supplies from the City of Cambridge:

American Rubber Co.,	Binney street,	Two 6-in.
American Net & Twine Co.,	Third street,	6-in.
Barber Asphalt Paving Co.,	First street,	6-in.
Bay State Metal Works,	Harvard street,	6-in.
Blacker & Shepard,	Osborn street,	2-in.
Blake, Geo. F. Manufacturing Co.,	Third street,	4-in.
Boston Book Binding Co.,	Mt. Auburn street,	6-in.
Boston Elevated Railway Co.,	Baldwin street,	2-in. & 4-in.
" " " "	Cambridge street,	Two 2-in.
" " " "	Pelham street,	3-4-in.
" " " "	Massachusetts ave.,	4-in.
" " " "	Mt. Auburn street,	2-in. & 4-in.
" " " "	Murray street,	4-in.
" " " "	River street,	4-in.
Boston & Maine Railroad Co.,	Bridge street,	4-in.
" " " "	Bridge street,	6-in.
" " " "	Prison Point street,	4-in.
Boston Woven Hose & Rubber Co.,	Portland street,	10-in. & 8-in.
Chelmsford Foundry Co.,	Portland street,	2-in.
Davis, Curtis & Co.,	Broadway,	6-in.
Davis, James C. & Co.,	Broadway,	4-in. & 6-in.
Dover Stamping Co.,	Pleasant street,	6-in.
Dow, John C. & Co.,	Portland street,	2-in.
Fogarty & Daly,	Massachusetts ave.,	4-in.
Ginn & Co.,	First street,	Two 6-in. One 8-in.
Goepper Bros.,	Ninth street,	1 1-2-in.
Harvard College, Memorial Hall,	Cambridge street,	4-in.
Harvard College, Observatory,	Concord avenue,	1-in.
Holy Ghost Hospital for Incurables,	Hovey avenue,	3-in.
Houghton, Mifflin & Co.,	Albro & Blackstone sts.,	Two 6-in.
Irving & Casson,	First street,	Two 6-in.
" " "	Otis street,	
" " "	Thorndike street,	
" " "	Thorndike street,	2-in.
Ivers & Pond Piano Co.,	Albany street,	4-in.
Jones, C. L. & Co.,	Pearl street,	4-in.
Keeler & Co.,	Thorndike street,	1-in.
Kendall, Edward & Sons,	Main street,	2-in.
Lamb & Ritchie,	Albany street,	6-in.
Laminer Fibre Co.,	Tannery street,	2-in.
Liquid Air, Power & Automobile Co.,	Albany street,	4-in.
Lockhart, William L.,	Bridge street,	1 1-2-in.
Luke, E. H. Estate of,	Main street,	2-in.
Mason & Hamlin Co.,	Broadway,	6-in.
Massachusetts Athletic Association,	Lansdowne street,	4-in.
Metropolitan Storage Warehouse Co.,	Massachusetts avenue,	6-in.
Middlesex County, House of Correction,	Second & Springs sts.,	6-in.
Morss & Whyte,	Auburn street,	3-in.
" " "	Auburn street,	6-in.

Morss & Whyte,	Franklin street,	6-in.
National Biscuit Co.,	Franklin street,	4-in.
National Biscuit Co.,	Green street,	8-in.
North Packing & Provision Co.,	Winsor street,	6-in.
Page, Geo. G. Box Co.,	Hampshire street,	6-in. & 4-in.
Patterson, Oscar G.,	483 Main street,	4-in.
Pi Eta Club,	Winthrop street,	2-in.
Porter, Henry S.,	Kinnaird street,	4-in.
Reardon (John) & Sons Corporation,	Waverly street,	4-in.
Revere Sugar Refinery,	Water street,	6-in.
Reversible Collar Co.,	Putnam avenue,	6-in.
Sawyer, Howard M. & Son.,	Thorndike street,	4-in.
Seavey Manufacturing Co.,	Third street,	6-in.
Seelye Manufacturing Co.,	First street,	4-in.
Slavens, Luther R.,	Broadway,	2-in.
Smart, Charles E.,	Main street,	2-in.
Sparrow, H. F. & Co.,	Hampshire street,	6-in.
Speare's (Alden) Sons & Co.,	Rogers street,	4-in.
Speare's (Alden) Sons & Co.,	Sixth street,	4-in.
Standard Oil Co.,	Potter street,	6-in.
Thayer, Henry & Co.,	Broadway,	6-in.
Tower, Sylvester & Son,	Broadway,	4-in.
University Associates,	Linden street,	4-in.
University Press,	Nutting Place,	6-in.

SUPPLIES.

An account of the number and sizes of supplies laid during the year will be found on page 233. One hundred fifty-eight (158) have been added this year; this number includes only those laid for new buildings or for old buildings formerly not supplied through a separate pipe from the main in the street.

Total number of supplies laid to date:—fourteen thousand two hundred seven (14,207).

One hundred twenty-nine (129) supplies have been renewed.

One hundred three (103) old supplies have been furnished with new sidewalk shut offs and service boxes.

In Sidney Street and Lexington Street, at Massachusetts Avenue, the supplies laid for the Sewer Department which have been abandoned have been removed.

Supplies in the following streets have been offset at the request of the Superintendent of Sewers:—Pilgrim Street, Massachusetts Avenue near railroad crossing, Brookline Street and Langdon Street.

Supplies in Fayerweather Street, formerly on the high service, have been connected to the low service system.

At No. 1780 Massachusetts Avenue the supply has been connected to the ten-inch main; No. 334 Green Street is now supplied from the twenty-inch.

The eight-inch fire supply at Ginn's on Athenæum Street has been

connected with our system. This firm formerly used salt water for fire purposes.

During the annual spring inspection of sidewalk shut offs the service boxes were lowered where they had been affected by the frost.

Special attention has been directed to those in the following streets where they have been raised:—Arnold Circle, Berkshire Street, Brookine Street, Charles River Road, Fairfield Street, Gray Street, Hastings Street, Hayes Court, Munroe Street, Myrtle Avenue, Ninth Street, Pemberton Street, Porter Circle, Potter Park, Porter Road, Putnam Court, Richdale Avenue, Saint Paul Street, Sidney Street and Tremont Street.

And in the locations following where they have been lowered:—Berkshire Street, Brewster Street, Clarendon Avenue, Distillhouse Street, Eighth Street, Fourth Street, Haskell Street, Hubbard Avenue, Magnolia Avenue, Mill Street, Railroad Street, Third and Otis Streets, Van Norden Street, Willow Street, Worcester Street.

Seventeen (17) service boxes have been reset, and six (6) removed from supplies to be abandoned.

DRINKING FOUNTAINS.

No change in the number of drinking fountains has been made this year. The number in use is twenty-eight (28) — twenty-four (24) of the ordinary style and four (4) ice water drinking fountains of Jenks manufacture.

The ice water drinking fountains were not in use until July; in the two years preceding they had been in commission about the middle of May.

The Water Board considered that having purchased, set and maintained these ice water fountains for two years it should be relieved of further expense of ice maintenance, and having made and asked for no appropriation for this year's expense, the fountains were not supplied with ice until July as before stated and then at the request of the Mayor.

The bills for this ice have not been settled although an appropriation of four hundred dollars ($400.00) was asked for and ignored by the City Council. It will be necessary to include this amount in the coming year's estimate.

The fountains located as follows have been repaired:—Central Square, Fresh Pond, Garden Street, Lechmere Square, Inman Square, Norton Square, Porter's Square, Putnam Square.

The supplies for the fountain in Central Square and Garden Street have been renewed.

STREET WATERING STANDPIPES.

There has been no addition made to the street watering standpipes this year.

The annual inspection exposed the necesssity of renewing the valves in many locations, where the injury to these valves had been caused by the negligence of an employe in the Street Department, the cost of repairs has been met by that department.

The stand pipe at the corner of Concord Avenue and Madison Street has been relocated on Huron Avenue at the corner of Holly Avenue.

GATES.

Forty (40) gates have been set on extension and renewal account as follows:—

Five (5) four-inch; sixteen (16) six-inch; eight (8) eight-inch; three (3) ten-inch; six (6) twelve-inch and two (2) sixteen-inch.

Six (6) gates have been set on new supplies:—i. e. four (4) four-inch and two (2) six-inch.

In Water Street the defective six-inch gate has been removed and a new six-inch set in its location.

In Massachusetts Avenue, at Chauncy Street, and at Lee Street, the gates have been repaired.

The report of the annual inspection gives a very satisfactory account in respect to the good condition and working order of the gates.

The locations of the gates in the entire city have been marked.

BOXES.

Forty-one (41) gate boxes have been set in place of old ones removed as follows:—thirty-one (31) iron; four (4) hydrant; two (2) large wooden and four (4) small wooden.

Forty (40) boxes have been set on extension and renewal of cast iron mains; thirty-eight (38) iron and two (2) gate chambers for the sixiteen-inch gates on Putnam Avenue.

Twenty (20) boxes have been set on supply work; six (6) iron and fourteen (14) wooden.

Fifty-eight (58) boxes have been set on supplies which have been metered during the year.

Total number of boxes set this year, one hundred fifty-eight (158).

In forty-two (42) locations the boxes have been raised and in eight

(8) lowered to conform to the new surface elevation of the streets as constructed by the Street Department.

Five (5) blow offs and five (5) gate boxes have been reset; one (1) gate box and nine (9) meter boxes have been removed.

HYDRANTS.

Twenty-three (23) hydrants have been added to the list this year; the total number set to date, November 30th, is nine hundred and sixty-eight (968), as follows: —

Boston	159
Chapman	458
Coffin	42
Flush	128
Holyoke	86
Perkins	95
Total	968

Thirty-four (34) post hydrants have been set in the following locations: In Albany Street, east from Pacific, two Chapman; in Baldwin Street, northeast from Cambridge, one Chapman; in Bird Street, near Cushing Avenue, one Chapman; in Cambridge Street, between Fourth and Fifth (Boston removed), one Chapman; in Dana Street, at Broadway, one Chapman; in First Street, at Thorndike, one Boston; in Gorham Street, at Wendell, one Chapman; in Gray Street, at Linnaean (Chapman removed), one Chapman; in Green Street, near Putnam Avenue (Flush removed), one Chapman; in Green Street, southeast from Putnam Avenue, one Chapman; in Green Street, between Lansdowne and Blanche, one Chapman; in Harvey Street, opposite Montgomery (Flush removed), one Perkins; in Magazine Street, at Warland (Flush removed), one Chapman; in Magee Street, east from Putnam Avenue, one Chapman; in Massachusetts Avenue, north and south from Amherst Avenue, two Chapman; in Massachusetts Avenue, north from the Esplanade, two Chapman; in Massachusetts Avenue, corner Linden Street (Boston removed), one Chapman; in Massachusetts Avenue, north and south from Princeton Avenue, two Chapman; in Massachusetts Avenue, south from Vassar, two Chapman; in Massachusetts Avenue, north and south from Wellesley Avenue, two Chapman; in Portland Street, corner Vandine (Boston removed), one Chapman; in Putnam Avenue, southeast from Brookline, one Chapman; in Putnam Avenue, opposite Magee (Boston removed), one Chapman; in Putnam Avenue, northwest from Sidney (Flush removed), one Chapman;

in Putnam Avenue, northeast from Waverly (Perkins removed), one Chapman; in Upland Road, near Richdale Avenue, one Chapman; in Vine Street, at Second, one Chapman; in Waverly Street, near Erie (Perkins removed from Erie at Waverly), one Perkins.

The Chapman hydrant at the corner of Granite and Pearl Streets, the Perkins at the corner of Pemberton and Fairfield Streets, the Boston at the corner of Portland and Hampshire Streets and the Chapman in Bellevue Avenue have been relocated.

The following hydrants have been repaired:—In Baldwin Street, Bridge Street, corner of Dana and Chatham Streets, Dudley and Montgomery Streets, Eliot and Winthrop Streets, Eliot Square, First and Main Streets, Harvard and Prospect Streets, Henry Street, Ninth and Bent Streets, Pearl and Green Streets, Pearl and Lake Streets, School and Main Streets, Sidney and Green Streets, Sherman and Bolton Streets, and Third and Charles Streets.

The Holyoke hydrant in Auburn Street near Brookline Street, which was broken in July by a steam roller, was removed, repaired and reset in its original location.

The Chapman hydrant in Ninth Street at Vine Street has been removed, repaired and reset as above. This hydrant is situated in an exposed location and since its resetting has been protected by a stone post.

METERS.

There are eight hundred sixty (860) meters in use, November 30, 1900.

Two hundred seventy (270) have been set this year; this number exceeds that of last year, which was our largest annual report, by ninety-eight (98).

Following is the kind and number of meters set at this date:—

Ball & Fitts	4	Thomson	9
Crown	46	Trident	404
Empire	1	Union Duplex	1
Gem	1	Union Rotary	53
Hersey	175	Weir	1
Lambert	66	Worthington	85
Nash	14		

The meter on the pipe supplying the Sawyer Belting Company on Thorndike Street has been changed from the inside to the outside of the building.

All of the meters in locations exposed to frost have been thoroughly packed for the season.

STONY BROOK.

During the year there have been built on the water shed of this Brook nine (9) vaults and five (5) cess-pools, to take care of house drainage; this makes a total of seventeen (17) vaults and (9) cess-pools already built by the City on this Brook. So far, nearly all of them have been cared for by the City. About twenty-two hundred (2,200) feet of fencing have been built on the Sargent place in Lincoln, and about four hundred (400) feet around the upper part of Stony Brook basin.

I would recommend that an appropriation be made for cleaning this Brook and ditching where it is found that the water is held back by accumulations in the present ditches. The buildings at the dam are in good condition. The gate house roof has been repaired and the brick work pointed where needed.

TABLE SHOWING THE DAILY AVERAGE NUMBER OF GALLONS, BY THE MONTH, FLOWING OVER THE WASTE WAY AT STONY BROOK.

	Gallons.	Number of Days.		Gallons.	Number of Days.
December, 1899....	No overflow.	—	June, 1900....	114,400,000	13
January, 1900....	76,500,000	9	July, 1900....	No overflow.	—
February, 1900....	1,155,200,000	28	August, 1900....	" "	—
March, 1900....	1,687,700,000	31	September, 1900....	" "	—
April, 1900....	568,700,000	30	October, 1900....	" "	—
May, 1900....	815,900,000	31	November, 1900....	28,700,000	3

Total quantity wasted, ... 4,447,100,000 gallons.
Total number of days in which water wasted 145

STONY BROOK PIPE LINE.

The usual inspection of this line, and the gates, air valves, and blow offs has been made. The discharge through this pipe is now about seven (7) million gallons daily, a decrease of about one and one-half million (1,500,000) gallons since it was laid, thirteen (13) years ago.

I would renew the recommendation made for the past two years that something be done to restore this pipe to its former capacity.

STONY BROOK.				HOBBS BROOK.									
				LINCOLN STREET BASIN.			WINTER STREET BASIN.				REMARKS.		
Date.	Lowest elevation reached.	Highest elevation reached.	Rainfall.	Date.	Lowest elevation reached.	Highest elevation reached.	Date.	Lowest elevation reached.	Highest elevation reached	Rainfall.	Gates opened.	Gates closed.	Removed flash boards.	Set flash boards.
Dec. 1, 1899	77.96	.....	.....	Dec. 12, 1899	180.52	.....	Dec. 31, 1899	175.43	.....	.....	.....	.....	.....	.....
Dec. 26, 1899	.....	78.40	2.04	Dec. 25, 1899	.....	180.62	Dec. 1, 1899	.....	175.90	1.58	.....	.....	.....	.....
Jan. 1, 1900	78.06	.....	.....	Jan. 10, 1900	180.52	.....	Jan. 10, 1900	175.10	.....	.....	.....	Winter St	.....	.....
Jan. 30, 1900	.....	81.40	5.41	Jan. 30, 1900	.....	181.06	Jan. 31, 1900	.....	176.33	4.47	.....	d., Jan. 16	.....	.....
Feb. 4, 1900	81.01	.....	.....	Feb. 21, 1900	180.66	.....	Feb. 1, 1900	176.38	.....	.....	.....	.....	Lincoln St.	Winter St
Feb. 23, 1900	.....	82.55	10.31	Feb. 23, 1900	.....	181.58	Feb. 28, 1900	.....	180.75	8.08	.....	.....	dam, Feb 25, Rem. 2d.	dam., Feb. 14.
Mar. 31, 1900	81.38	.....	.....	Mar. 1, 1900	180.90	.....	Mar. 1, 1900	180.80	.....	.....	.....	.....	.....	.....
Mar. 2, 1900	.....	82.81	5.55	Mar. 17, 1900	.....	182.08	Mar. 17, 1900	.....	181.85	5.14	.....	.....	.....	.....
Apr. 12, 1900	81.24	.....	.....	Apr. 11, 1900	181.45	.....	Apr. 30, 1900	181.33	.....	.....	.....	.....	.....	.....
Apr. 20, 1900	.....	81.48	2.08	Apr. 21, 1900	.....	181.58	Apr. 21, 1900	.....	181.45	2.38	.....	.....	.....	.....
May 2, 1900	81.25	.....	.....	May 31, 1900	181.43	.....	May 31, 1900	181.30	.....	.....	.....	.....	.....	.....
May 20, 1900	.....	81.80	4.86	May 21, 1900	.....	181.68	May 20, 1900	.....	181.55	4.84	.....	.....	.....	.....
June 30, 1900	79.	.....	.....	June 30, 1900	181.23	.....	June 30, 1900	181.10	.....	.....	.....	.....	.....	.....
June 4, 1900	.....	81.36	2.98	June 4, 1900	.....	181.54	June 4, 1900	.....	181.35	2.10	.....	.....	.....	.....
July 9, 1900	77.04	.....	.....	July 24, 1900	180.48	.....	July 31, 1900	179.77	.....	.....	.....	.....	July 8th Rem. 1st July 9th Rem. 2nd July 12th Rem. 3d July 14th Rem. 4th	.....
July 27, 1900	.....	78.82	2.66	July 1, 1900	.....	181.20	July 1, 1900	.....	181.05	2.41	.....	.....	July 19th Rem. 5th July 23d Rem. 6th July 29th Rem. 7th. July 31st Rem. 8th	.....
Aug. 26, 1900	78.22	.....	.....	Aug. 31, 1900	180.10	.....	Aug. 31, 1900	178.50	.....	.....	Winter St dam, Aug 24 (first time)	.....	Aug. 7th Rem. 9th Aug. 10th Rem. 10th	.....
Aug. 3, 1900	.....	78.94	2.30	Aug. 1, 1900	.....	180.50	Aug. 1, 1900	.....	179.70	2.14	.....	.....	Aug. 20th Rem. 11th Aug. 23d Rem. 12th	.....
Sept. 1, 1900	78.31	.....	.....	Sept. 13, 1900	179.68	.....	Sept. 30, 1900	177.47	.....	.....	Winter	Winter St	.....	.....
Sept. 19, 1900	.....	79.12	4.85	Sept. 23, 1900	.....	180.10	Sept. 1, 1900	.....	178.45	4.67	St. dam, Sept. 24	d., Spt. 18 (1st time)	.....	.....
Oct. 22, 1900	78.33	.....	.....	Oct. 7, 1900	179.92	.....	Oct. 31, 1900	177.05	.....	.....	Winter St	Winter St	.....	.....
Oct. 13, 1900	.....	79.29	3.63	Oct. 30, 1900	.....	180.35	Oct. 1, 1900	.....	177.45	3.40	d., Oct. 21	d., Oct. 10	.....	.....
Nov. 7, 1900	78.38	.....	.....	Nov. 1, 1900	180.30	.....	Nov. 24, 1900	176.68	.....	.....	.....	Winter St	.....	.....
Nov. 30, 1900	.....	81.33	4.67	Nov. 27, 1900	.....	180.85	Nov. 30, 1900	.....	177.25	4.68	.....	d., Nov. 26	.....	.....
Total			51.34							45.89				

HOBBS BROOK.

The height of water in this basin is now 177.25 feet. Water was drawn from here first this season on August 24th and has continued with slight interruptions to the present. The old ice houses near the upper basin have been torn down and the old material removed.

On the night of November 2nd the old Litchfield house was set on fire and burned, together with the lumber from the old barn which stood near by. The fire was without doubt incendiary. The house and stable occupied by the keeper have been painted.

The standing grass about the basin not needed by the department has been sold.

The brook flowing through the meadows on what was formerly the Litchfield place, and also that coming from the Evans place should be widened and thoroughly cleaned out, and I would advise that the work be done the coming year, as I am confident that it would improve the quality of the water coming from these sources.

RECAPITULATION.

NEW SUPPLIES.

	6 Inch	4 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	Total
Length, in feet, of pipe	123	114	450	421	295½	1,836½	3,608	6,848
Number of supplies	3	3	7	5	6	32	102	158
Number of stop and waste valves	.....	.....	6	4	5	29	96	140
Number of screw cocks	.....	.....	7	5	5	32	98	147
Number of sidewalk cocks	.....	.....	.....	.....	5	32	102	139
Number of service boxes	.....	.....	.....	.....	.....	.....	.....	129
Number of gates	2	4	.....	.....	.....	.....	.....	6
Number of gate boxes	.....	.....	.....	.....	.....	.....	.....	6
Number of wooden boxes	.....	.....	.....	.....	.....	.....	.....	14

MAIN PIPE.

	16 Inch	12 Inch	10 Inch	8 Inch	6 Inch	4 Inch	2 Inch	1¼ Inch	Total
Length, in feet, of cast-iron pipe (extensions)	1,486½	1,357	1,245	2,182	1,953½	861	36	53	9,174
Length, in feet, of cast-iron pipe (renewals)	.....	299	44	.....	69½	.....	.....	.....	412½
Total length, in feet, of cast-iron pipe	1,486½	1,656	1,289	2,182	2,023	861	36	53	9,586½
Number of gates	2	6	3	8	16	5	.....	.....	40
Number of hydrants	.....	.....	.....	.....	.....	.....	.....	.....	23

COMPARATIVE TRENCHING FOR THE PAST TEN YEARS.

	Extensions.	Renewals.	Supplies.	Total Feet.	Miles.
1891.....	9,858½	2,958	17,864	30,680½	5.81
1892.....	16,784½	13,628	16,013	46,425½	8 79
1893.....	18,380½	11,008	14,233½	43,622	8.26
1894.....	13,673	17,481½	17,211	48,365½	9.16
1895.....	11,083	15,638½	22,266	48,987½	9.27
189	17,621	26,043	17,361	61,025	11.55
1897.	11,268	36.967½	16,121½	64,357	12.19
1898.....	11,045½	25,397	12,186	48,628½	9.21
1899....	11,051½	9,427½	13,486½	33,965½	6.43
1900.....	9,174	412½	6,848	16,434½	3.11

Following will be found the report of the Chief Engineer of the Pumping Station.

All of which is respectfully submitted,

E. C. BROOKS,

Superintendent.

REPORT OF THE PUMPING ENGINEER

CAMBRIDGE, December 1, 1900.

To the Honorable, the Water Board of the City of Cambridge.

GENTLEMEN:—I will again report that the machinery at the Pumping Station is in first class condition.

The Leavitt engine was run up to October 19th, pumping all the water used by the City the past year to this date, when it was shut down for general repairs. The second receiver was changed from tubes to copper coils on account of leaking. The link boxes were re-enforced with composition and scraped to a bearing; the jacket piping was changed to conform to later ideas in regard to reheating, showing good results with a marked increase in duty.

You will find the duty cut down materially the past year on account of stopping the Leavitt engine seventeen days for repairs and seven days for a leak in the force main outside of the Station, making a difference of one hundred thousand pounds of coal in thirty days' run alone, on account of running the No. 1 and No. 2 Worthington engines.

I will again recommend skim coating the No. 1 and No. 2 boilers with magnesia covering, and painting the same, also the steam piping and iron work in the fire-room, to have it compare with the plant in general.

Respectfully submitted,

E. I. HARRIS,
Chief Engineer.

RUNNING EXPENSES AT PUMPING STATION.

Coal	$10,998.83
Carpenter work	68.45
Electric work	33.33
Express	12.68
Oil, grease and packing	479.69
Plumber	63.47
Repairs on engine	39.15
Stationery	10.50
Tubing (copper)	277.50
Tools	80.50
Hardware	134.99
Telephone	259.35
Engine house and lot	105.00
Salaries	8,254.49
Miscellaneous	89.56
Total	$20,907.49

ENGINE RECORD, POND LEVELS AND RAINFALL.

DATE.	LOW SERVICE ENGINES.						HIGH SERVICE ENGINE.			ENGINE NO. 7.			Total Water Pumped.	Daily Average Water Pumped.	Total Coal Consumed.	Daily Average Coal Consumed.	Average Height of Pond.	Rainfall.
	Engine No. 1.			Engine No. 2.														
	Running Time.		Water Pumped.	Running Time.		Water Pumped.	Running Time.		Water Pumped.	Running Time.		Water Pumped.						
1899.	Hrs.	Min.	Gallons.	Hrs.	Min.	Gallons.	Hrs.	Min.	Gallons.	Hrs.	Min.	Gallons.	Gallons.	Gallons.	Lbs.	Lbs.	Feet.	In.
December..	—	—	—	—	—	—	—	—	—	239	35	204,553,360	204,553,360	6,598,495	309,150	9,973	14.35	1.30
1900.																		
January....	—	—	—	—	—	—	—	—	—	375	30	243,173,920	243,173,920	7,844,320	329,050	10,615	14.56	4.40
February...	100	15	27,358,500	113	—	30,706,500	—	—	—	213	10	141,877,120	199,942,120	7,140,790	357,985	12,785	15.43	7.34
March.....	—	—	—	—	—	—	—	—	—	340	—	229,562,080	229,562,080	7,405,228	328,690	10,6 3	16.78	5.10
April.....	—	—	—	—	—	—	—	—	—	318	30	201,539,360	201,539,360	6,717,979	281.100	9,370	17.23	1.99
May.....	—	—	—	—	—	—	—	—	—	309	—	195,051,120	135,051,120	6,291,972	272,150	8,779	17.04	5.52
June..	—	—	—	—	—	—	—	—	—	361	—	225,405,400	225.405,400	7,513,513	28 ,750	9,358	16.66	2.75
July.....	—	—	—	—	—	—	—	—	—	409	45	274,256,400	274,256,400	8,846,981	349,100	11,261	15.68	2.31
August	—	—	—	—	—	—	—	—	—	340	15	226,855,640	226,855,640	7,317,924	309,6 0	9,989	14.67	2.80
September..	—	—	—	—	—	—	—	—	—	342	45	224,104,760	224 104.760	7,470, 59	304,850	10.162	14.25	4.40
October.....	158	30	44,343,300	155	30	44,839.800	—	—	—	208	15	135,065,480	224,248,580	7,233,825	379,650	12,247	14.41	3.75
November..	38	30	10,758,000	221	15	53.382,300	186	—	11,779,200	203	—	126,665,000	202,584,500	6,752,817	364,850	12,162	14.56	5.23
Total.....	297	15	82,459,800	489	45	128,928,600	186	—	11,779,200	3,660	45	2,428,109,640	2,651,277,240	—	3,866,975	—	—	46.89
Daily Av'ge	—	—	—	—	—	—	—	—	—	—	—	—	7,263,773	—	10,594	—	15.47	—

REPORT OF THE SUPERINTENDENT OF STREETS

To the Honorable, the City Council:—

GENTLEMEN:—In accordance with the requirements of the ordinance relating to streets, I have the honor to submit my seventh annual report, for the financial year ending November 30, 1900.

As has been the custom in recent years, for convenience in reference, the accounts of the various appropriations of this department are here given in alphabetical order, as they appear on the City Auditor's monthly statement.

BRIDGES.

Appropriation			$2,500 00
EXPENDED.			
Draw tenders' salaries		$1,620 73	
First Street Bridge:—			
Planking	$138 86		
Repairs, dolphins, etc.	33 43		
		172 29	
Third StreetBridge:—			
Planking		145 76	
Sixth Street Bridge:—			
Planking	$178 83		
Repairs	54 55		
		233 38	
Walden Street Bridge:—			
Plank	$90 56		
Repairs	27 62		
		118 18	
General Supplies and Sundries		171 94	
			2,462 28
Balance			$37 72

The above named bridges, together with two on Huron Avenue, one at Alewife Brook and one at Wellington Brook are all that now remain under the charge of this department.

The annual examination of these bridges was made at the close of the financial year, and the City Engineer's report of their condition is as follows:—

"An inspection of the wooden bridges at First, Third and Sixth

Streets shows that the usual amount of repairs and renewals will be needed the coming year.

"The iron bridge at Walden Street is again being corroded by the action of smoke and gas from the engines of the Fitchburg Railroad, and the lead protection has been worn out. The lead covering should be renewed and the iron work thoroughly cleaned and painted. The bridge at Huron Avenue also needs painting."

CLEANING STREETS.

Appropriation		$34,500 00
EXPENDED.		
Labor	$25,186 42	
Teaming	3,557 64	
Four pick-up sweeping machines	2,246 00	
Three side sweeping machines	975 00	
One gutter sweeping machine	290 00	
Refilling sweeper brooms	688 16	
Repairs to machines	305 11	
Hardware, tools, etc.	158 37	
Hay and grain	1,093 09	
		34,499 79
Balance		21

The above figures include the amount expended for the care of snow and ice, which this year has been smaller than any of the past twenty years.

The amount expended for this purpose was:—

District 1	$1,065 88
District 2	822 50
	$1,888 38

As a result of an investigation into methods of cleaning streets in operation in some of the large cities in the country, a number of new features have been adopted in this branch of the work of the department. Four pick-up machines, each with a capacity of nearly one cubic yard, were purchased of the Charlton Manufacturing Company, of Brooklyn, N. Y.

These machines sweep a space seven feet wide, taking up the dirt as they go along the street, until the receptacle is filled, when it may be emptied on the dump, if within reasonable distance from the work, or piled on a side street in the immediate vicinity, from whence it is carted by dump wagons.

As these machines cannot safely sweep within a foot of the curb-

stone, the gutters must be swept before they go through a street, for this purpose a gutter sweeper built by the Automobile Street Sweeping Company, of Boston, was purchased, and has proven to be the most effective machine for this work that I have yet seen. The machine is drawn by two horses at a fast walk, and by an ingenious arrangement of sprocket and chain, the brooms, which are placed vertically are made to revolve rapidly, throwing the dirt into a winrow about three feet from the curb. By this machine the corners and sides of gutters can be cleaned as thoroughly as with an ordinary house broom. As the machine is not obliged to stop to unload, or for any purpose, it can easily keep the gutters swept ahead of the pick-up machines, and as soon as another one can be obtained it should be added to our present equipment.

Three steel side sweeping machines were purchased from W. C. Oastler, of New York. These machines combine all the advantages found in the several styles now on the market. They are used a large part of the time on our paved streets and have been kept constantly at work day and night since they were received.

Considering the somewhat complicated mechanism of all the machines and the great amount of work done by them during the past season, the amount expended for repairs has been unexpectedly small. During the coming winter all the machines will be thoroughly cleaned, overhauled and painted and at the opening of next year's season we shall have as well equipped a street cleaning plant as will be found in any city of our size in New England.

As may be seen by reference to the summary of expenditures, a very large item of expense is the cost of refilling sweeping machine brooms. Believing that this annual expenditure might be very materially reduced, I made an investigation into the matter and found that for a comparatively small amount the necessary apparatus could be obtained and that the work could be performed by some of our regular employees at a cost per broom not greatly exceeding one half the amount now paid. The steam chest, etc., necessary for performing this work is now being made and in a short time we shall be prepared to refill all of our brooms promptly and economically.

It hardly seems necessary to state how many times, or how often the streets have been cleaned during the past year, the fact is that they have been kept clean all the time. Their condition at present will compare favorably with the streets of any city in the Commonwealth and I contemplate the work done and the results achieved in this branch of the department with more complete satisfaction than any other.

COLLECTION OF ASHES.

Appropriation		$28,000 00
EXPENDED.		
Labor	$20,372 48	
Teaming	358 25	
Hay, grain, etc.	2,456 74	
New ash carts	3,213 00	
Horse and cart covers	115 50	
Harnesses, etc.	205 00	
Horses	339 12	
Foundation furnace house	154 14	
Lumber furnace house	460 12	
Lumber, hardware, etc., for paper carts	169 20	
Hose	50 00	
Printing	32 00	
Bicycle repairs and sundries	74 39	
		27,999 94
Balance		06

Considerable change has been made in the methods formerly employed in this branch of the department. The old sixteen one-horse carts, holding a little more than a yard and a half each, have been superseded by nine large two-horse dump wagons, each with a capacity of nearly six yards. As the number of trips to the dumps is greatly decreased on account of the increased capacity of these new carts, the same amount of ashes, etc., can be collected and disposed of much more economically than under the old system.

In the early part of the present year the City Council made a number of changes in the ordinance in relation to the collection of ashes, all tending to improvement of the service to the public, and also very materially increasing the cost thereof.

Under the present arrangement, barrels and other receptacles are taken from yards and placed upon the sidewalks by employees of the department, and after the barrels, etc., have been emptied are returned by them to the places where they were found. This has made an increase in the force necessary, and five additional men at an annual cost of $3,000.00 are employed on this work.

Upon the adoption of the regulation requiring that waste paper and other light material should be placed in separate receptacles from those containing ashes, we were confronted with the problem of what should be done with this class of refuse. Inquiry into the matter disclosed the fact that with a moderate initial expenditure this sort of waste might become a source of revenue large enough to pay the cost of its collection.

With this end in view, we have built in the department shop two large paper wagons of the style in use in Boston, and have started the construction of a furnace house at the Raymond Street Yard. This building is fifty feet long by thirty feet wide, with doors so arranged that the largest wagons can drive in and dump their loads. It is proposed to build a furnace suitable for the purpose at one end of the building, in which everything which cannot otherwise be disposed of will be consumed.

A circular notifying tenants, housekeepers, and others of these changes in the ordinances was prepared, and by courtesy of the Police Department was distributed throughout the City. Compliance with the requirements has been general, complaints have been comparatively few, the once familiar spectacle of ash barrels tipped over and their contents strewn about the streets is now rarely seen, and the observance of these regulations has largely contributed to the success of our street cleaning division.

CONSTRUCTION—GREEN STREET.

Appropriation		$900 00
EXPENDED.		
Labor	$195 23	
Teaming	85 51	
Field stone	483 73	
Edgestone	135 50	
		899 97
Balance		03

By an order approved October 27, 1899, Green Street was laid out and extended from Sidney Street to Blanche Street. Edgestones have been set on both sides of the street and it has been macadamized in a substantial manner.

CONSTRUCTION—INMAN COURT.

Appropriation		$1,100 00
EXPENDED.		
Labor	$271 06	
Teaming	33 78	
Edgestone	160 80	
		465 64
Balance		$634 36

By an order approved May 18, 1900, Inman Court was accepted and laid out at a width of thirty-five feet. Edgestones and gutters have been

laid on both sides of the court and it has been brought to grade. The unexpended balance will be used next season in macadamizing the roadway and building the sidewalks.

MAINTENANCE.

Appropriation		$80,000 00

EXPENDED.

Salary of Superintendent	$2,000 00	
Clerical assistance	2,131 92	
District foremen	2,364 81	
Labor	36,536 39	
Injured employes, paid for time lost	188 00	
Teaming	2,827 75	
Car tickets	30 00	
Carriages and wagons, new and repairs	349 66	
Field stone and broken stone	11,452 35	
Fuel and lighting	2,248 08	
Gravel, freight and loading	825 75	
Hardware, lumber, tools, etc.	2,002 18	
Harnesses, new and repairs, horse clothing, etc.	753 66	
Hay, grain and straw	5,708 65	
Horses (five)	1,017 79	
Paints, oils, etc.	293 52	
Repairs to stables	1,170 63	
Repairs to asphalt pavement, Massachusetts Avenue	274 12	
Stable supplies, tools, etc.	170 62	
Steam roller	3,000 00	
Steam rollers, repairs and supplies	1,334 43	
Stone crushers, repairs and supplies	1,985 75	
Telephones, office supplies, etc.	960 33	
Travelling expenses, carriage hire and sundries	373 38	
	——	79,999 77
Balance		23

As will be seen by reference to the above summary of expenditures, all the general and running expenses of the entire department are charged to this account, more complete details of which may be found in the report of the City Auditor.

While the general impression prevails that the amount appropriated is for the maintenance of streets, the fact is, that a very large part of it is expended for items which enter into the cost of maintaining and operating the department, but which cannot be shown to have been used directly upon the streets. The amount available for actual street work is shown

by the following schedule, showing the streets macadamized, resurfaced and repaired in each district, an itemized account of the cost of each street, and the total cost in each district:—

MACADAMIZING AND RESURFACING.

RESURFACING.

DISTRICT No. 1.

Albany Street:—		
Labor	$130 00	
		$130 00
(1665 double loads of gravel from Portland Street.)		
Auburn Street, between Brookline and Sidney Streets:—		
Labor	$390 00	
Teaming	327 37	
Steam roller	36 75	
Ballast stone	366 15	
Cracked stone	512 50	
Gravel	16 75	
		1,649 52
Bigelow Street:—		
Labor	$76 00	
Teaming	37 50	
Steam roller	66 50	
Cracked stone	503 50	
		683 50
Binney Street, between Sixth Street and Portland Street:—		
Labor	$51 00	
Teaming	3 75	
		54 75
Bristol Street, between Market Street and Hampshire Street:—		
Labor	$34 00	
Teaming	58 50	
		92 50
(96 double loads of gravel from Portland Street.)		
Erie Street, between Pearl Street and Brookline Street:—		
Labor	$13 00	
Steam roller	15 75	
		28 75
(63 double loads of cracked stone from Pearl Street.)		
Granite Street, between Pearl Street and Magazine Street:—		
Labor	$92 00	
		92 00
(1,235 double loads of gravel from Pearl Street.)		
Amount carried forward		$2,731 02

Pearl Street Brick Pavement — Mixing and placing concrete base

Amount brought forward		$2,731 02
Green Street, between Pleasant Street and Putnam Avenue:—		
Labor	$36 00	
Teaming	49 50	
Steam roller	17 50	
Cracked stone	137 50	
Gravel	1 75	
		242 25
Green Street, between Pearl Street and Magazine Street:—		
Labor	$39 00	
Teaming	31 50	
Steam roller	26 25	
Cracked stone	321 85	
		418 60
Grigg Street, between Hews Street and Putnam Avenue:—		
Labor	$112 25	
Teaming	181 13	
Gravel	30 25	
		323 63
Hancock Street, between Massachusetts Avenue and Broadway:—		
Labor	$209 50	
Teaming	192 37	
Steam roller	64 75	
Cracked stone	517 50	
		984 12
Hayes Street, between Howard Street and Putnam Avenue:—		
Labor	$229 75	
Teaming	523 12	
Gravel	88 75	
		841 62
Highland Avenue, between Greenough Avenue and Broadway;—		
Labor	$75 50	
Teaming	64 13	
Steam roller	17 50	
Cracked stone	167 50	
		324 63
Lake Street, between Pearl Street and Magazine Street:—		
Labor	$13 50	
Teaming	6 75	
Steam roller	12 25	
		32 50
(80 double loads of cracked stone from Pearl Street.)		
Amount carried forward		$5,898 37

Amount brought forward		$5,898 37
Magazine Street, between Granite Street and Florence Street:—		
Labor	$75 50	
Teaming	153 00	
Steam roller	49 00	
Cracked stone	355 00	
Gravel	1 75	
		634 25
Maple Avenue:—		
Labor	$108 00	
Teaming	71 50	
Steam roller	64 75	
Cracked stone	236 25	
Gravel	1 25	
		481 75
Marney Street, between Portland Street and Berkshire Street:—		
Labor	$73 00	
Teaming	85 50	
Steam roller	17 50	
Cracked stone	264 07	
Gravel	6 50	
		446 57
Market Street, between Windsor Street and Union Street:—		
Labor	$36 50	
Teaming	11 25	
Steam roller	29 75	
Cracked stone	300 35	
		377 85
Massachusetts Avenue, junction of Albany Street:—		
Labor	$38 00	
Teaming	92 25	
Steam roller	14 00	
Cracked stone	112 50	
Gravel	2 00	
		258 75
Massachusetts Avenue, between Windsor Street and railroad crossing:—		
Labor	$87 50	
Teaming	112 50	
Steam roller	52 50	
Cracked stone	235 20	
Gravel	3 50	
		491 20
Norfolk Street, between Massachusetts Avenue and Broadway:—		
Labor	$337 00	
Teaming	174 25	
Steam roller	133 00	
Cracked stone	700 00	
Gravel	11 50	
		1,355 75
Amount carried forward		$9,944 49

Amount brought forward		$9,944 49	
Second Street, between Charles Street and Bent Street:—			
Labor	$234 00		
Teaming	87 75		
Steam roller	38 50		
Cracked stone	322 65		
Gravel	2 00		
		684 90	
Sixth Street, between Binney Street and Cambridge Street:—			
Labor	$486 50		
Teaming	505 12		
Steam roller	168 00		
Cracked stone	1,577 50		
Gravel	60 00		
		2,797 12	
Thorndike Street, between First Street and Sixth Street:—			
Labor	$421 50		
Teaming	378 00		
Steam roller	140 00		
Cracked stone	1,085 00		
Gravel	3 00		
		2,027 50	
Windsor Street, between Main Street and Massachusetts Avenue:—			
Labor	$143 00		
Teaming	182 25		
Cracked stone	460 00		
Gravel	6 50		
		791 75	
Inman Street:—			
Amount expended in excess of special appropriation		787 00	
Total amount District No. 1 . .			$17,032 76
DISTRICT No. 2.			
Arlington Street:—			
Labor	$38 00		
Teaming	77 63		
Steam roller	84 00		
Cracked stone	255 00		
Gravel	25		
		454 88	
Athens Place:—			
Labor	$15 50		
Teaming	58 50		
Steam roller	31 50		
Cracked stone	125 00		
		230 50	
Amounts carried forward		$685 38	$17,032 76

Amounts brought forward		$685 38	$17,032 76
Belmont Street:—			
Labor	$24 00		
Teaming	9 00		
Steam roller	3 50		
		36 50	
Buena Vista Park:—			
Labor	$9 00		
Teaming	47 25		
Steam roller	14 00		
Gravel	13 25		
		83 50	
Cambridge Street, between Dana Street and Kirkland Street:—			
Labor	$567 00		
Teaming	411 75		
Steam roller	234 50		
Cracked stone	637 50		
		1,850 75	
Carver Street:—			
Labor	$102 00		
Teaming	154 13		
Steam roller	31 50		
Gravel	53 00		
		340 63	
Concord Avenue, between Arsenal Square and Craigie Street:—			
Labor	$111 00		
Teaming	76 50		
Steam roller	45 50		
Cracked stone	140 00		
		373 00	
Everett Street, between Oxford Street and Massachusetts Avenue:—			
Labor	$168 50		
Teaming	146 25		
Steam roller	73 50		
Cracked stone	327 50		
Gravel	6 75		
		722 50	
Hudson Street:—			
Labor	$22 00		
Teaming	36 00		
Steam roller	42 00		
Cracked stone	110 00		
Gravel	50		
		210 50	
Amounts carried forward		$4,302 76	$17,032 76

Amounts brought forward.		$4,302 76	$17,032 76
Langdon Street:—			
Labor	$134 00		
Teaming	229 50		
Steam roller	66 50		
Cracked stone	440 00		
Gravel	6 00		
		876 00	
Massachusetts Avenue, between Linnaean Street and railroad bridge:—			
Labor	$198 00		
Teaming	346 50		
Steam roller	178 50		
Cracked stone	690 00		
		1,413 00	
Massachusetts Avenue, at Porter's Station:—			
Labor	$12 50		
Teaming	29 25		
Steam roller	24 50		
Cracked stone	82 50		
		148 75	
Mellen Street:—			
Labor	$169 00		
Teaming	146 25		
Steam roller	49 00		
Cracked stone	332 50		
Gravel	4 75		
		701 50	
Mount Auburn Street, between Aberdeen Avenue and the bridge.			
Labor	$32 00		
Teaming	97 88		
Steam roller	45 50		
Cracked stone	150 00		
Gravel	7 00		
		332 38	
Park Avenue:—			
Labor	$58 00		
Teaming	108 00		
Gravel	48 75		
		214 75	
Porter Square:—			
Labor	$20 00		
Teaming	50 63		
Steam roller	31 50		
Cracked stone	97 50		
		199 63	
Amounts carried forward		$8,188 77	$17,032 76

Amounts brought forward		$8,188 77	$17,032 76
Putnam Square:—			
Labor	$43 00		
Teaming	50 63		
Steam roller	24 50		
Cracked stone	90 00		
Gravel	1 25		
		209 38	
Putnam Avenue, between Western Avenue and Mount Auburn Street:—			
Labor	$296 00		
Teaming	382 25		
Steam roller	143 50		
Cracked stone	722 50		
Gravel	9 50		
		1,553 75	
Quincy Street, between Kirkland Street and Broadway:—			
Labor	$42 00		
Teaming	34 87		
Steam roller	28 00		
Cracked stone	72 50		
		177 37	
Raymond Street, between Walden Street and Upland Road:—			
Labor	$77 00		
Teaming	45 00		
Steam roller	17 50		
Cracked stone	195 00		
Gravel	4 75		
		339 25	
Somerville Avenue, between White Street and westerly crossing:—			
Labor	$78 00		
Teaming	110 25		
Steam roller	63 00		
Cracked stone	235 00		
Gravel	1 00		
		487 25	
Surrey Street:—			
Labor	$16 00		
Teaming	51 75		
Steam roller	21 00		
Cracked stone	80 00		
Gravel	2 25		
		171 00	
Amounts carried forward		$11,126 77	$17,032 76

Pearl Street Brick Pavement — Removing trees with steam roller

Amounts brought forward		$11,126 77	$17,032 76
Wellington Street, between Concord Avenue and the bridge:—			
Labor	$77 00		
Teaming	253 87		
Steam roller	56 00		
Cracked stone	403 75		
		790 62	
Wendell Street:—			
Labor	$107 00		
Teaming	90 00		
Steam roller	68 25		
Cracked stone	320 00		
		585 25	
Total amount District No. 2 . .			12,502 64
Total, Districts Nos. 1 and 2			$29,535 40

Something over $10,000.00 has been expended, in addition to the amount shown above, for patching and small repairs on roadway, gravel sidewalks, etc., on all the streets in the City.

After a thorough examination of the several makes of steam rollers on the market, and with several year's experience with three different machines, it was decided to purchase a twelve ton roller from W. C. Oastler of New York. The roller has been constantly at work since its arrival here early in April; it has proven satisfactory in every respect and I have seen no reason to change my opinion as to which was the best machine for our purpose.

A new boiler has been placed at the stone crusher located at the Raymond Street Yard, and additional sheds for housing machines, carts, etc., have been built there.

The operating expenses of the department, although kept as low as is consistent with efficient service and proper care of our plant, are annually increasing, and while the number of miles of streets to be cared for grows larger every year, there is not a corresponding increase in the "Maintenance" appropriation.

The work done under the several appropriations made up from the street railway tax, elsewhere spoken of in this report, has somewhat relieved the regular "Maintenance" appropriation, which however, for the work to be performed annually, should not be less than $100,000.00.

STREETS LAID OUT AND ACCEPTED, DECEMBER 1, 1899, TO DECEMBER 1, 1900.

Location of Street.						Plan.	
Name.	From.	To.	Length in Feet.	Width in Feet.	Date of Acceptance.	Made By.	Date.
Amherst Street	Massachusetts Avenue.	Robinson Street	1090	60	Nov. 15, 1900	Aspinwall & Lincoln..	Oct. 29, 1900
Andrew Street	Fairmont Street	Somerset Street	431	30	Dec 29, 1899	George A. Merrill	May 10, 1897
Berkshire Street	York Street	Bristol Street	467	40	Sept. 28, 1900	City Engineer	June 1, 1900
Binney Street	First Street	Third Street	1085	50	Sept. 28, 1900	W. A. Mason & Son...	May 31, 1900
Bristol Street	Market Street	Hampshire Street	268	30	June 15, 1900	W. A. Mason & Son...	June 1878
Commercial Avenue..	First Street	Binney Street	596	60	Sept. 28, 1900	W. A. Mason & Son...	May 31, 1900
Eustis Street	Oxford Street	Somerville Line	655	40	June 22, 1900	W. A. Mason & Son...	Aug. 31, 1899
Garden Street	Waterhouse Street	Northerly, about 187 feet.	....	....	Nov. 16, 1900	City Engineer	Sept. 25, 1900
Granite Street	Magazine Street	Pearl Street	479	40	Dec. 29, 1899	City Engineer	Sept. 19, 1899
Granite Street	Pearl Street	Brookline Street	498	40	Sept. 28, 1900	City Engineer.	Sept. 19, 1899
Hamlin Street	York Street	Plymouth Street	208	40	Sept. 28, 1900	City Engineer	June 1, 1900
Hardwick Street	Berkshire Street	Portland Street	300	40	Sept. 28, 1900	City Engineer	May 16, 1900
Inman Court	Inman Street	Jones Alley	184	35	May 18, 1900	City Engineer	Oct. 31, 1899
Lincoln Street	Webster Avenue.	Willow Street	170	40	Sept. 28, 1900	City Engineer	May 16, 1900
Massachusetts Ave...	Mount Vernon Street..	Upland Road	West Line Widened	Straightened Both Sides	May 4, 1900	City Engineer	Feb. 2, 1900
Mount Auburn Street.	Nr. Fitchb'g R.R. bridge	..			Sept. 28, 1900	City Engineer	April 1900
Pleasant Street.	Present southerly end.	Charles River Road	400	40	July 12, 1900	City Engineer	Feb. 10, 1900
Porter Road	Massachusetts Avenue.	Massachusetts Avenue...	841	40	June 8, 1900	W. A. Mason & Son...	June 15, 1897
Second Street	Near Bent Street.	Binney Street	428	50	Dec. 29, 1899	W. A. Mason & Son...	March 27, 1899
Sidney Street	Pacific Street	Chestnut Street	1963	40	June 28, 1900	City Engineer	April 17, 1900
Traymore Street	Eustis Street	Harris Street	255	30	July 12, 1900	W. A. Mason & Son...	June 26, 1900
Waverly Street..	Erie Street	Allston Street	460	40	June 14 1900	City Engineer	April 4, 1900
West Street	Inman Street	Lee Street	585	37	Nov. 16, 1900	William E. Stark	June 26, 1897

Total length of accepted streets, December 1, 1900, 92.845 miles.

Pearl Street Brick Pavement – Placing the bricks on sand cushion

NEW STREETS, CLAY LAND DISTRICT.

Appropriation		$2,093 16
EXPENDED.		
Labor	$154 00	
Gravel	995 01	
Carting gravel	475 42	
		1,624 43
Balance		$468 73

This appropriation was the unexpended balance of an appropriation made last year for the construction of thirteen streets laid out in 1896, through land owned by the Bay State Brick Company on the northerly side of Concord Avenue between Walden Street and New Street.

The amount expended as shown above was for final payments on contracts for gravel and carting which were uncompleted at the close of last year and some necessary labor, spreading etc.

Actual construction of these streets is now completed and their further care will be charged to the General Maintenance Account.

PAVING, EDGESTONES AND SIDEWALKS.

Appropriation		$25,000 00
EXPENDED.		
Labor	$9,726 29	
Teaming	2,303 48	
Bricks	5,596 88	
Carting bricks	223 75	
Edgestones and circles	5,469 31	
Freight and loading gravel from bank at Acton	1,003 45	
Allowance on artificial stone sidewalks	308 20	
Paving blocks	50 00	
Hardware, lumber, tools, etc.	317 06	
		24,998 42
Balance		$1 58

To this appropriation is charged the expense of all new edgestones, and brick or artificial stone sidewalks.

The following tables show by districts the new sidewalk work done during the year, viz., the number of feet of new circles and edgestones set, and square yards of new brick sidewalk laid, with the expense on each street: —

PAVING DISTRICT No. 1.

STREETS.	Linear Feet Straight Curb.	Linear Feet Circle Curb.	Square Yards Brick Sidewalk.	Amount.
Auburn Street, Nos. 158 and 164	75.7		27.5	$143.64
Binney Street, between Portland Street and Ninth Street	759 3	27.2	671.2	1,545.51
Brookline Street, between Pilgrim Street and Pacific Street	44.8		38.7	93.73
Cambridge Street, No. 962			42.7	42.64
Chestnut Street, between Magazine Street and Brookline Street	215	9.5	629	846 53
Columbia Street, corner of Broadway	91.8		75	196.15
Franklin Street, between River Street and Western Avenue	69		50.3	157.26
Hampshire Street, between Portsmouth Street and Plymouth Street	60		179	214.04
Hancock Street, between Broadway and 150 feet south	105		71.6	266.20
Harding Street, between Cambridge Street and Somerville line	914.5		708.4	1,940.41
Hews Street, between Western Avenue and Grigg Street	283	9.5	101.5	493.53
Main Street, at No. 322			44	34.38
Market Street, at No. 20	37		30	83.32
Market Street, between Windsor Street and Columbia Street	108.5	10	116.5	232.22
Massachusetts Avenue, at Brigham's Milk Depot			93	75.29
Ninth Street, between Binney Street and Potter Street	313.8	5.7	323	607.39
Pearl Street, corner Granite Street		39.2	20	99.51
Pearl Street, between Chestnut Street and Granite Street	155		430	587.32
Portsmouth Street, Nos. 1, 3, 5, 7	47.9		34	96.92
Portsmouth Street, Nos. 52, 54, 56			47	43.39
Porter Street, between Warren Street and Harding Street	1,185.4	31.7	720	2,274.30
Potter Street, between Ninth Street and Sixth Street	401	9.4	363.4	744 57
Putnam Avenue, from Magazine Street, westerly	131.6			183.16
River Street, at car house	139			139.96
Webster Avenue, at corner Portsmouth Street			47.3	43 40
Windsor Street, between Harvard Street and 100 feet south	69.3		70.3	151.53
Windsor Street, between Palermo Street and 150 feet south			100 6	112.89
Windsor Street, between Market Street and Broadway	52.3		42.2	105.72
Total	5,258.9	142.2	5,076.2	$11,554.91

PAVING DISTRICT No. 2.

STREETS.	Linear Feet Straight Curb.	Linear Feet Circle Curb.	Square Yards Brick Sidewalk.	Amount.
Bellevue Avenue, at Raymond Street, southerly.	253.3	102	190	$720.93
Berkeley Street, No. 8	83			104.35
Buena Vista Park, between Richdale Avenue and the circle	303.4	129.7		664.10
Cambridge Street, south side, between Prescott Street and Broadway	250		742	774.02
Fairfield Street, between Rindge Avenue and Pemberton Street	1,063.8	27.9	741.9	1,864.04
Hawthorne Street, No. 12	83.8			90.90
Hubbard Avenue, south side, between Raymond Street and Walden Street	575.6	14.4	424.3	1,109.51
Kirkland Street, between Trowbridge Street and Irving Street	265.6	16.4	190	526.76
Mead Street, between Walden Street and Cogswell Avenue	610			836.73
Park Avenue, between Holworthy Street and Huron Avenue	1,863.6	115.3		2,808.69
Porter Road, entire	1,478.6	67.8		1,783.13
River View Avenue	406.5			424.63
Somerville Avenue	198	59	270.4	634.64
Story Street, between Mt. Auburn Street and Brattle Street	6.5		232.5	205.90
Surrey Street, between Putnam Avenue and Banks Street	545.1		401.6	1,021.08
Upland Road, from Raymond Street to angle			395	421.17
Walden Street	97 8	10.6	99	246.77
Ware Street, between Harvard Street and Broadway	571		420	1,209.98
Wendell Street, Nos. 80 to 84			76	79.97
Woodbridge Street, between Massachusetts Avenue and Locke Street	268.4	9 4	190.4	468.05
Total	8,924	552.5	4,373.1	$15,995.35

It will be noted that the total cost of new sidewalk work exceeds the amount of the appropriation by a little more than $2,500. This is accounted for by the fact that we had a considerable stock of bricks on hand at the beginning of the year and that nearly all the gutters have been paved with blocks taken from the old West Boston Bridge. In the tables these items are figured at the regular price.

There remain in the files of the Committee on Roads and Bridges a number of petitions for new sidewalks and we have several uncompleted orders for the same.

Following is a list of streets where artificial stone sidewalks were laid during the past year. As most of this work was done late in the season after the appropriation was exhausted, the amount allowed abuttors who desired this style of sidewalk, viz., six cents per square foot, must be provided for in the appropriation for Paving Edgestones and Sidewalks of next year.

ARTIFICIAL STONE SIDEWALKS.

Street.	Square Yards
Amherst Street, from Massachusetts Avenue, westerly	207.4
Amory Street	78.75
Brattle Street, No. 100	1.8
Dana Street, No. 4	7.2
Esplanade, north side Massachusetts Avenue	322
Gray Street, both sides	422.74
Hawthorne Street, east side, Nos. 4, 12, 14, 28	133
Highland Street, south side, Spark Street, westerly, Nos. 2, 4 and 16	105.47
Hillside Avenue, south side, Avon Hill Street to Washington Avenue, No. 30 and No. 49	161.1
Massachusetts Avenue, Esplanade to Amherst Street	282.2
Massachusetts Avenue, at Everett Hall	64.5
Massachusetts Avenue, No. 863	72.1
Mt. Vernon Street, No. 50	46.3
Oxford Street, east side	32.6
Putnam Avenue, south side Magazine Street	71.5
Raymond Street, southwest side, Bellevue Avenue to Upland Road	112.13
Sparks Street, west side, Highland Street, southerly, No. 69	53.8
Summer Street, west side, Amory Street, southerly	76.72
Upland Road, No. 273	28.04
Upland Road, No. 265, 263, 261, 259	102
Washington Avenue, west side, Hillside Avenue, southerly, Nos. 49, 33	117.4
Wendell Street, No. 69	30.8
	2,529.55

Pearl Street Brick Pavement — Rolling with two and one-half ton steam roller

PAVING — CROSSINGS AND REPAIRS.

Appropriation (from Street Railway Tax)		$10,000 00
EXPENDED.		
Labor	$7,743 82	
Teaming	853 68	
Bricks	170 91	
Cement and repairing concrete crossings	218 00	
Concrete stone	43 90	
Gravel (freight and loading)	232 00	
Granite flagging	621 97	
Granite blocks (recutting)	51 33	
Lumber, etc.	64 11	
		9,999 72
Balance		28

The above amount was expended for laying and repairing crossings, resetting edgestones, relaying brick sidewalks and gutters. This is the amount usually expended for this purpose, but was not nearly sufficient for the repair work which should have been done this year. There are miles of brick sidewalks which ought to be relaid, and thousands of feet of edgestone which should be reset, demands for new crossings are increasing, and if the appropriation were doubled for next year it would not be more than enough for what seems absolutely necessary work.

As will be seen by reference to the following list, a number of vitrified brick crossings have been laid in different sections of the City. If these crossings prove as durable, they are in many other respects superior to granite flagging.

CROSSINGS.

District No. 1.

Austin Street, at east side of Norfolk Street (Vitrified Brick)	$85 91
Austin Street, at west side of Norfolk Street (Vitrified Brick)	95 77
Austin Street, corner of Essex Street, four crossings (Vitrified Brick)	320 25
Bridge Street, at west side of third crossing	37 98
Cambridge Street, at Camellia Avenue	66 39
Elm Street, corner Lincoln Street	42 96
First Street, corner of Cambridge Street	34 10
Hancock Street, at south side of Harvard Street (Vitrified Brick)	78 93
Hancock Street, at north side of Harvard Street (Vitrified Brick)	72 64
Hancock Street, at east side of Massachusetts Avenue (Vitrified Brick)	73 83
Inman Square	47 51
Inman Street, at north side of Austin Street (Vitrified Brick)	71 25
Lincoln Street, at easterly corner Columbia Street	52 30
Massachusetts Avenue, at Albany Street	47 96

District No. 1. — Continued.

Massachusetts Avenue, near Harvard Bridge	$70 48
Massachusetts Avenue, corner of Norfolk Street	22 61
Gardner Street, at Murdock Street	19 95
Norfolk Street, between Broadway and Austin Street	135 75
Putnam Avenue, at Magazine Street	82 78
Thorndike Street, between First Street and Second Street (Vitrified Brick)	84 04
Total District No. 1	$1,543 39

District No. 2.

Avon Place, at Avon Hill Street	$26 61
Bow Street, at east side Plympton Street	67 75
Brattle Street, at east side of Boulevard (Vitrified Brick)	180 99
Concord Avenue, at east side of Bond Street	36 18
Concord Avenue, at Gilman School (Repairs)	8 63
Brattle Street, north side, at Fresh Pond Parkway (Vitrified Birck)	202 11
Frost Street, at Roseland Street (Repairs)	2 19
Garden Street, at north side of Chauncy Street (Vitrified Brick)	113 34
Gerry Street, at Mt. Auburn Street (Repairs)	2 69
Hillside Avenue, at Washington Avenue	50 30
Linden Street, at north side of Bow Street	34 50
Linnaean Street, at Massachusetts Avenue (Vitrified Brick)	151 53
Massachusetts Avenue, at Porter's Bridge (Repairs)	5 01
Massachusetts Avenue, near Day Street (Repairs)	8 70
Massachusetts Avenue, between Linnaean Street and Porter's Station	342 15
Massachusetts Avenue, between Chauncy Street and Linnaean Street	261 27
Mt. Auburn Street, at westerly side Ash Street	32 61
Mt. Auburn Street, at Homer Avenue (Repairs)	7 43
Norris Street, at Cedar Street (Repairs)	5 38
Park Avenue, at Holworthy Street	63 40
Plympton Street, at north side of Bow Street	39 23
Putnam Avenue, between Flagg Street and Grigg Street	23 89
Shepard Street, at Massachusetts Avenue (Vitrified Brick)	177 58
Surrey Street, at Banks Street (Repairs)	10 75
Upland Road, at Massachusetts Avenue (Repairs)	6 01
Total District No. 2	$1,860 23

THE STREET RAILWAY TAX.

By an Act of the Legislature of 1898 (Chapter 578), a change was made in the method of the distribution of the annual franchise tax of street railway corporations. Under the old law the tax was distributed among the towns and cities in which the shareholders lived; the new law provides that the tax shall be distributed among the cities and towns through which the companies operate their cars, and the amount paid to each city or town is based on the number of miles of tracks in the public

ways on September 30 of the preceding year. By the operation of the new law, Cambridge received in December, 1898, $50,965.53; in December, 1899, $47,569.33; and in March, 1900, $19,933.29. The greater part of these amounts has been appropriated and expended for rebuilding some of our principal streets, the account at the close of this financial year being as follows:—

Amount received 1898			$50,965 53
" " 1899			47,569 33
" " 1900			19,933 29
" " from Boston Elevated Railway Company for work done out of this tax			5,740 20
			$124,208 35
EXPENDED, 1899.			
Paving, edgestones and sidewalks	$2,500 00		
Rebuilding Harvard Square	3,364 39		
" Portland Street	8,536 47		
" Prospect Street	24,792 43		
Unused vitrified bricks	677 54		
		$39,870 83	
EXPENDED, 1900.			
Paving, crossings and repairs	$9,999 72		
Rebuilding Cambridge Street	17,998 27		
" Portland Street	22,486 80		
" Pearl Street and Harvard Square	31,325 19		
		$81,809 98	
			$121 680 81
Balance unappropriated	$597 32		
Balance from above appropriations	1,930 22		
			$2,527 54

Detailed accounts of the expenditures this year under the appropriations from this tax will be found under their various headings in this report.

The sum of $86,582.65 will be received from this tax next year which with the unexpended balance from this year's account will make a total of $89,110.19 available for street work.

It seems to be the settled policy of this City to apply the larger portion of the amount thus annually received to the permanent construction of such streets as might be termed thoroughfares and with this end in view, I desire to call attention to the condition of several such streets, on all of which there are street railway tracks, and which are very badly in need of extensive repairs or rebuilding.

Massachusetts Avenue from Lafayette Square to Harvard Bridge. This part of the avenue was constructed in 1891 at a cost of nearly $60,000.00. A heavy Telford road was laid there with an eighteen-inch granite foundation. The six-inch cracked stone surface is almost entirely

gone, in some places it being necessary to renew it in order to make it safe for public travel. Believing that there is no better material than first-class vitrified brick, I would recommend that this part of the avenue be paved with them after the manner of the paving already laid on Pearl and Prospect Streets. The Telford already there would make an excellent foundation; sewers, water and gas pipes are laid in the sidewalks on each side of the avenue and there would be little probability of any need to disturb the surface of the roadway.

Brookline Street, River Street and Belmont Street should be rebuilt as soon as possible. The new sewer has been laid in Brookline Street and there is nothing to prevent the laying of a permanent pavement there.

The Boston Elevated Railway Company, having been granted a location for double tracks in Concord Avenue from Garden Street to the Belmont line, something in the way of permanent construction must be done there during the coming year. Several propositions for widening the avenue are being considered, and until this question is settled the character of the best pavement to be laid cannot be determined.

REBUILDING STREETS.

CAMBRIDGE STREET.

Appropriation (from Street Railway Tax)		$18,000 00
EXPENDED.		
Labor	$3,683 13	
Teaming	1,238 34	
Granite flagging	121 40	
Granite paving blocks	11,525 25	
Gravel, freight and loading	781 50	
Removing and carting old paving	634 70	
Oil	13 95	
		17,998 27
Balance		$1 73

The above summary shows the cost of the various items which entered into the expense of repaving Cambridge Street from the Boston & Albany Railroad Crossing to Third Street.

All the old, small blocks were entirely removed, including the spaces between tracks, and large "Boston" blocks were laid in their place.

The small blocks have been piled up at the Hampshire Street yard, and will be used next year in paving gutters, etc.

An entire new set of tram-top rails was put in by the Boston Elevated Railway Company, the street being brought to proper grade for that purpose.

The paving on this street was done under somewhat unfavorable conditions, as we had a great deal of rainy weather while the work was in

Pearl Street Brick Pavement — Spreading Portland cement grout

progress. Since the work was completed we have gone over it with a steam roller and covered it with a new coat of gravel so that in the spring I expect that it will be found as smooth as can be expected from this class of paving.

The Middlesex County officials have expressed a desire for some kind of a noiseless pavement in front of the new County buildings on this street between Second Street and Third Street. If such a pavement is to be laid there it would seem fair that a considerable portion of the expense should be borne by the County.

INMAN STREET.

Appropriation		$1,200 00
EXPENDED.		
Labor	$376 75	
Teaming	425 25	
Field stone	349 57	
Carting stone	48 43	
		$1,200 00

By an arrangement made late last year with the Massachusetts Pipe Line Gas Company, the above amount was paid by them toward the expense of resurfacing Inman Street, through which their 48-inch mains were laid. The entire cost of the work was a little under $2,000.00, the balance of the amount being charged to the regular Maintenance appropriation. The street was thoroughly resurfaced, the gutters relaid and it is now in excellent condition.

PEARL STREET AND HARVARD SQUARE.

Appropriation (from Street Railway Tax)		$33,253 40
EXPENDED.		
Labor	$10,181 83	
Teaming	1,852 41	
Cement, American	2,570 22	
Cement, Portland	1,552 50	
Concrete stone	1,362 45	
Edgestone	115 29	
Gravel, freight, loading and carting	938 69	
Paving blocks, vitrified	11,639 58	
Carting paving blocks	631 56	
Road pitch	153 50	
Lanterns, oil, tar kettle, etc.	172 16	
Use of steam roller	155 00	
		31,325 19
Balance		$1,928 21

In accordance with the recommendations of the Committee on Roads and Bridges of last year, which made an exhaustive investigation of the

subject of vitrified brick paving, Prospect Street from Massachusetts Avenue to Cambridge Street and a portion of Harvard Square were paved with vitrified bricks, furnished by the Eastern Paving Brick Company of Catskill, New York, and in continuation of the experiment (if indeed it can be called an experiment), appropriations were made at the beginning of this year for completing the paving of Harvard Square and for paving Pearl Street from Massachusetts Avenue to Putnam Avenue with a somewhat more expensive brick furnished by Higley, Keplinger & Co., of Canton, Ohio.

Both of these streets and the square, as is well known, are used by the Boston Elevated Railway Company, which has in a very satisfactory manner co-operated with the City in these improvements.

The work on Pearl Street is entirely completed, and through the accommodating spirit shown by the Railway Company in entirely withdrawing their cars from the street while the work was in progress, we were able to perform an exceedingly difficult task in a thorough and economical manner. The several cuts in this report show various stages of the work and give a very complete idea of the construction of the street.

Thirty-six trees, some of them over two feet in diameter, were removed, edgestones were reset and brick sidewalks relaid through the entire street, and it is now in first-class condition. As all abuttors were notified in ample season to look after their water, gas and sewer pipes, there should be no necessity for disturbing the surface of this street for several years.

The Railway Company not being able to obtain their iron for the reconstruction of their tracks in Harvard Square until late in the season, we could not place our order for brick soon enough to receive them in time to complete the work this year. The paving between the rails has been laid and nearly all the bricks have arrived and been piled ready for completing the work early in the spring.

PORTLAND STREET.

Appropriation (from Street Railway Tax)		$22,486 80
EXPENDED.		
Labor	$5,346 57	
Teaming	1,817 72	
Edgestone	1,167 37	
Granite flagging	258 73	
Granite paving blocks	13,160 94	
Gravel, freight and loading	721 90	
Lumber and oil	13 57	
		$22,486 80

The above amount was expended in paving Portland Street, from Marney Street to Main Street, with large granite blocks. This is a con-

tinuation of the work begun at Cambridge Street last year. Edgestones have been set on both sides of the street and it is now in good condition between the points named. The paving should be continued as soon as possible to Massachusetts Avenue, as this is one of the important avenues of communication from the easterly section of Ward Two to Harvard Bridge.

WATERING STREETS.

Appropriation			$26,000 00
EXPENDED.			
Salary of foreman		$1,000 50	
Sprinkling contracts		21,265 65	
Clerical assistance on assessments		103 38	
Watering cart repairs.			
Labor	$1,205 01		
Tanks and attachments	913 12		
Springs, hardware, etc.	328 23		
Lumber, mill work, etc.	364 26		
Paint stock, brushes, etc.	414 84		
		3,225 46	
One new watering cart		290 00	
Stand pipes, hose, repairs, etc.		93 06	
Bicycle repairs		21 95	
			$26,000 00

It having been determined that, under the provisions of the Legislative Act authorizing cities to water streets and to assess abuttors for the expense thereof, only accepted streets could be so watered, the watering of private ways was discontinued this year, except in cases where abuttors were willing to pay the entire cost of the same.

The work was done under the system followed for the last few years, a uniform price of $75 per month was fixed, and responsible and trustworthy persons were selected to the number of forty-five, to each of whom was assigned one cart. The City was laid out in a corresponding number of districts, each averaging a little over two miles of streets, and each contractor was required to keep the streets in his district properly watered at all times, Sundays included.

This force is under the direction of a foreman who devotes his entire time to this branch of the department, and the service has been satisfactory. The season has been the dryest known for years, there being only thirty-four rainy days in the seven months during which the streets were watered.

Notwithstanding the large amount expended this year for repairs to watering carts, a large outlay will be required to put them in condition for service next year.

IN GENERAL.

At the risk of becoming tiresome, I venture to again call attention to the well-worn subject of the purchase of a ledge for the department, and quote my remarks in relation to the matter from last year's report.

"I cannot too strongly urge the necessity of some provision being made for an adequate supply of a proper quality of road material. Field stone of good quality is rapidly becoming scarce, and nothing but the purchase of a suitable ledge will result in that uniform character of the surface of our streets which is so essential to a properly constructed, macadamized road. The annual saving in the cost of production of cracked stone and dust from a favorably located and properly equipped ledge would, in a few years, pay for the entire plant, and its installment would permanently settle a problem which is yearly growing more difficult to solve."

The consolidation of the Boston & Maine and Fitchburg Railroads makes it possible for us to seek a ledge in new localities, and I trust that something definite may be accomplished in this direction during the coming year.

The gravel bank at Acton has yielded a plentiful supply of good quality paving gravel and has proven a good investment for the City.

Following the arrangement made in February of last year, the horses of the several departments of the City, except those of the Fire and Water Departments, are shod at the blacksmith shops of this department, monthly bills being rendered each department for the work done. The total amount charged for the past year was $501.30. The cost for shoeing the sixty-five horses of this department was $768.97, or about $12.00 per horse for the year.

The improvement in the several branches of the department, brought about by the adoption of new and improved machinery, carts, etc., is in a great degree due to the progressive and energetic action of His Honor the Mayor, whose constant supervision and cordial support have been of invaluable assistance in solving the many problems met with in the course of the year.

Acting upon the suggestion and advice of the Mayor, the undersigned in January of this year went to a number of the large cities in the country for the purpose of obtaining some information as to the administration of street departments and of enquiring into methods elsewhere pursued in street work. New York, Patterson, St. Louis, Chicago, Dayton, Springfield, Ohio, Columbus, Cleveland, Buffalo and Albany were visited; every opportunity was given by the department officials in the several cities for observing the various matters under their control, and I here desire to

express my acknowledgements to them for the courtesies extended and the information freely and cordially given me everywhere throughout the trip. The results obtained have been of great value and are partly shown in the development of the department during the past year.

The progress made along the line of improvements in machinery, etc., and the introduction of vitrified brick pavements have this year attracted an unusual number of visiting officials and committees from other cities in the State, and in the early part of May the Massachusetts Highway Association, composed of officials connected with and interested in street work, devoted an entire day to the inspection of our streets and observation of the work in operation at that time in the several divisions of the department. It is extremely gratifying to note that comparisons made by these visitors have been to a flattering degree in favor of our City, and the adoption by other cities in the State of a number of the new features recently introduced here, has proven their practical utility.

The adoption at the last election of the eight-hour law necessitated a rearrangement of the working hours and the employment in some divisions of additional men. These matters have all been satisfactorily adjusted and the entire force is now on an eight-hour basis in accordance with the law.

The employees throughout the several branches of the department have very generally given careful attention to their duties, and merit commendation for faithful service.

My acknowledgments are extended to the members of the City Council for their advice and approval, and to the various City officials for their courtesy and consideration.

Following is a schedule of property in charge of this department: —

REAL ESTATE.

City Yard and Stable, Raymond Street:—		
Land	$11,000 00	
Stable, sheds, scales, etc.	34,500 00	
		$45,500 00
City Stable, Hampshire Street:—		
72,661 square feet of land, Assessors' valuation	$30,000 00	
Stable, sheds and scales, including old police station	17,000 00	
		47,000 00
Yard and Pound, east side of Norfolk Street:—		
39,600 square feet of land, Assessors' valuation		12,000 00
Yard and Wharf at River Street:—		
92,800 square feet of land, Assessors' valuation		32,000 00
		$136,500 00

PERSONAL PROPERTY.

65 horses	$8,125 00	
49 watering carts	12,000 00	
47 carts (29 single, 18 double)	4,700 00	
74 set of harness (8 chain)	1,770 00	
23 sleds, 2 snow-plows, 1 sleigh	1,350 00	
2 snow levelers, 16 gutter plows	340 00	
2 buggies, 3 foreman's wagons	375 00	
3 tool wagons, 1 bicycle	175 00	
2 hayracks, 2 caravans, 2 pungs	275 00	
2 paper carts	200 00	
8 Shadbolt carts	2,997 80	
1 Watson cart	215 20	
4 steam rollers	6,000 00	
1 two-horse section roller	150 00	
4 road machines, 2 road scrapers	1,200 00	
7 side street sweepers, 1 gutter sweeper	1,300 00	
4 pick-up sweepers	2,246 00	
Stone-crushing plant, Raymond Street yard	5,000 00	
Stone-crushing plant, Hampshire Street yard	5,000 00	
Tools, stable furniture, etc.	4,000 00	
Lumber, iron, cement, paints, oils, etc.	1,500 00	
550 feet straight edgestone, 130 feet circles	278 80	
300,000 paving blocks (seconds)	3,600 00	
8,000 sidewalk bricks	104 00	
100 tons cracked stone	130 00	
58,000 vitrified bricks	1,653 00	
		64,684 80
Total		$201,184 80

Respectfully submitted,

CHARLES A. BROWN,
Superintendent of Streets.

REPORT OF THE ELECTRICAL DEPARTMENT

Office of the City Electrician.
December 1, 1900.

To the Honorable, the City Council : —

I herewith respectfully submit for your consideration the second annual report of the Electrical Department.

The work of this department, embodying all matters relating to the electrical affairs of this City, can be classed under the following divisions : —

1. Inspection of electric wires in buildings.
2. Supervision of electric wires and poles in the streets.
3. Electrical construction work.
4. Consulting electrical engineering for the municipal departments.
5. General electrical expert work for the City.
6. Maintenance and operation of the Fire Alarm System.
7. Maintenance and operation of the Police Signal System.
8. Supervision of the street lighting of this City.

INSPECTION OF WIRES IN BUILDINGS.

The ordinance requires that all buildings in this City that are wired for electric light, heat or power shall be inspected to see that the installation of the wires and apparatus has been done in a safe and proper manner.

The result of such an inspection has been that the wires and apparatus have been installed in a safe and proper manner and that seldom has injury to life or property resulted from the installation of such wires. The only injury to property brought to the notice of this department the past year was the setting of a fire in the factory of Richard Tyner on Gore Street on February 22, 1900. This was due to faulty insulation as the wire was bare in many places and a leaking roof allowed of a double ground upon the inside wiring. At one place where one of the wires was in contact with a nail a fire was started on a beam. An employee of the company noticed this and reported the same to an Engine Company located a couple of blocks away, but when they arrived they found the fire out. They notified this department and a man was immediately sent who disconnected the faulty circuit. The damage was inappreciable.

These wires were probably never inspected as no request for such an inspection is on file in this office, nor is there a record of such having been made.

This department has adopted and enforced the National Electrical Code of rules and requirements for the wiring of buildings. These rules are those adopted by the engineering and architectural societies, the national electrical associations and the insurance companies and are standard throughout the country. They form moreover the basis for all municipal rules which embody them generally in their entirety and add such further rules as the requirements of a City may necessitate.

This department the past year has made 252 inspections while last year 213 were made, showing an increase of thirty-nine inspections. The number of visits required to complete these inspections were 481 and is the criterion upon which to base the amount of inspection service rendered. Inspection is rendered certain in every case of new work as the Cambridge Electric Light Company will not furnish current to any customer who has not had his wires inspected and a certificate from this department given to that effect.

The total capacity of sixteen candle power lamps installed the past year was 7,936. The number of low potential enclosed alternating current arc lamps installed was twenty-three. There were thirty-four motors installed of an aggregate of $164\frac{5}{8}$ horse power. In addition to this there were three elevator motors installed of which the total horse power capacity was twenty-two. The actual current consumption at any one time is of course far less than that corresponding to the capacity installed.

All inspections made are carefully recorded and preserved, in regard to the main details, by a card index system. These inspection records can be readily obtained at any future time as they are indexed by street and number.

THE PRESENT STATUS OF ELECTRIC WIRES IN THE STREETS OF THE CITY.

Again this year would I most urgently call the attention of the City Council to the condition of this City in relation to the electric wires upon its thoroughfares.

Some action by your honorable body should be taken at once to remedy the present overhead wire nuisance which this year resulted in the death of four persons. This matter should receive your earliest consideration as it is of the utmost importance that some plan be devised or method adopted this winter if actual construction of conduits is to be commenced the ensuing year.

With this object in view I would respectfully call your attention to

the following summary of what has been accomplished so far in this City towards the removal of overhead wires. The following table shows the number of poles owned by each company on December 1, 1900, and also the number of feet of conduit laid :—

Owner.	No. of Poles.	Feet of Conduit.
Cambridge Electric Light Co. . . .	3,081	
New England Telephone and Telegraph Co.	949	71,891.4
Boston Elevated Railway Co. . . .	832	6,236.3
City Poles	1	
Totals	4,863	78,127.7

An examination of the above table shows that the Cambridge Electric Light Company owning 62 per cent. of the poles or nearly twice as many as all the other companies collectively, have as yet built no conduits. It will therefore be readily seen that this Company must place its wires underground before any great decrease in pole lines can be accomplished. As the wires of that Company are the most dangerous, it is at once apparent that they should have been the first buried and not left overhead as the table shows.

The only remedy for this present state of affairs is to remove the present overhead wires and place them in conduits where they properly belong. There appear to be four methods by which such an undertaking can be accomplished. They may be enumerated as follows :—

First. Execution of a voluntary agreement between the different companies operating overhead wires and the City for the burial of these wires.

Second. Compulsory State legislation such as was granted to Boston.

Third. Giving a license to a conduit company under State legislation.

Fourth. The establishment of a municipal conduit system.

The first method would assure that a certain amount of wires should be buried each year. It would, however, lead to an unnecessary occupation of the sub-service of our streets and a duplication of manholes. Moreover it would be liable to lead to repeated digging up of our streets for their installation.

The second method would give to the City the right to order wires now strung upon the streets to be placed underground. This is the method adopted in Boston and last year was granted to Springfield, Mass. In Boston it has resulted in the monopolization of the sub-surface of its streets.

The third method would require compulsory State legislation authorizing the grant of a franchise to a subway company which would have the right for the burial of all wires whenever the City should order them

placed underground. This is the method pursued in New York City, but unfortunately for that city it has not resulted in such beneficial results as should have been obtained. It possesses however, in my judgment, many substantial advantages over the two previous methods.

The establishment of a municipal conduit system would assure the City of the most complete system at a minimum of cost. Baltimore, Md., has already adopted such a system and spent last year $400,000 for the construction of the same. Such a system was also recommended for Washington, D. C., by an expert commission appointed by President Harrison. Last year the City of Philadelphia rented 22.3 miles of duct in a conduit system which they own and for which they received $9,390.70. That city does not however possess a complete municipal conduit system.

MUNICIPAL CONDUITS.

The City Government of this City has taken cognizance of this subject for several years, and has sought to secure State legislation authorizing the establishment of a municipal conduit system.

Cambridge Representatives in 1893-4-5 and 1900 introduced bills into the State Legislature which would grant to the cities of this State, excepting Boston, the right to construct and maintain a system of munipal underground conduits. Last year similar petitions were presented by Pittsfield, Brockton, Gloucester and Everett. Your City Solicitor and City Electrician appeared in behalf of this City before the Committee on Mercantile Affairs in the State Legislature in favor of such legislation. After six continued hearings the Committee reported a bill favorable to this City. Passage of the bill was also secured in the House of Representatives by a vote of seventy-one to nine, but it was refused concurrent action in the Senate on the question of passage to a third reading by a vote of nineteen to twelve, with two pairs.

Your City Electrician would therefore recommend that an appropriation be made at the beginning of the coming year for the purpose of properly placing this matter before the Legislature, by the employment of counsel and experts as may be needed.

The importance at this time of taking such action I cannot too strongly recommend, for it is now, rather than later, that such a conduit system can best be built. We have at present no electric light conduits in this City, but should at the earliest possible date arrange to place their high tension wires underground. If the City allows that company to build their own conduits, it must directly as a municipality pay such portion of its cost as the profits accruing from the electric lighting of this City bears to the total profits received. This percentage will not be

less than 45 per cent. Moreover the electric light company will want to pay 5 per cent. upon the bonds or stock issued for construction, whereas the City would only pay 3½ per cent. The amount that the City would not indirectly pay, its citizens would, for the whole revenue of that company comes out of Cambridge citizens.

The reasons advanced for a municipal conduit system briefly summarized are these: —

First. As a public utility it should properly belong to the City.

Second. It is a public utility requiring no expensive department for its maintenance and construction, and therefore most readily adapts itself to public ownership.

Third. It is a public utility where the income received will care for all expenses and therefore nothing will be added to the tax levy as the conduits would be built under a bond issue and a sinking fund provided.

Fourth. It will prevent monopolization of the sub-surface of our streets.

Fifth. A municipal conduit system will prevent repeated digging up of our streets.

Sixth. A conduit system installed under municipal ownership is cheaper to construct and operate than several smaller systems, and therefore would allow conduits to be installed on streets where the cost of three distinct conduit systems would be prohibitive.

Seventh. Municipal conduits would remove poles from the streets and would bury all classes of wires at the same time. This has not been accomplished under private ownership of conduits in Cambridge where fourteen miles of conduit has increased rather than diminished the number of poles since the companies require poles for their overhead distribution.

Eighth. It will allow competition if such should be desirable.

Ninth. It will retain control of the streets to the municipality.

The municipal conduit bill introduced into the last Legislature in behalf of this City is a perfected bill. It is almost identical with the bills before the Legislature for four different years and consequently has all the perfecting amendments as could be devised to suit the corporations and yet preserve the rights of the municipalities.

Among the most important provisions of the bill will be noted the following :—

First. It is a referendum bill and requires the vote of the people of the municipality at an election before it can be accepted by any city.

Secondly. Cost of construction is to be met by the issue of conduit loan bonds. These bonds are to be cared for from the rentals received. No additional financial burdens therefore are imposed upon the municipality.

Third. The amount of construction is limited each year and cannot exceed two miles of street without consent of the corporations who are to use this conduit. Excessive burdens therefore cannot be imposed suddenly upon the corporations.

Fourth. Plans of construction must first be approved by the Board of Electric Light and Gas Commissioners, thus assuring that the conduit will be properly built.

Fifth. Rental is assured the municipality as the corporations must use the conduit one year after its completion. The rental received cares for the interest and sinking fund on bonds, cost of maintenance, supervision and depreciation.

Sixth. The rental charged per year cannot exceed 12 per cent. of cost of construction and is moreover subject to revision by appeal to the Board of Electric Light and Gas Commissioners if the corporation deems such rental excessive.

Seventh. Vested right of the corporations are not affected as their conduits already laid can not be taken without their consent. The municipalities may purchase conduits already laid if the companies agree to sell.

The corporations in appearing before the legislative committees in opposition to this bill would have it appear that they did so as public benefactors and not in self interest. They claim that the bill is speculative in as much as the cities, if they should build conduits, would build them large enough to contain their own wires and also wires of competing corporations and allow competition. This competition is what they fear and to which they are opposed and is the main if not the sole reason for their objection to municipal conduits, although they are careful not to say so.

That competition will not lead to increased size in conduit construction under municipal control as compared with individual monopolized service is at once apparent when these facts are considered. At the present time it is customary for all companies to build conduits with 50 per cent. excess capacity. Therefore, if we have competition, the City will be enabled to receive an additional income from those ducts which would not otherwise be obtained until the growth of service required the occupancy of such ducts. It is not expected that a conduit will be fully occupied until after a period of twenty-five to fifty years has elapsed. Competition will, therefore, result in reduced rental charges and not in increased size of conduits.

Should competition result, as is claimed, in consolidation, from some of the companies going out of existence, the City will still receive the rent from the consolidated companies to the extent of the ducts required

Plate No. 1 — Blackstone St. in 1899

Plate No. 2 — Blackstone St. in 1900

for the use of the consolidated system. If such extent is less than that required before consolidation, then such ducts can be kept to await the future needs, but it is apparent that such consolidation will not materially lessen the number of ducts required.

The corporations in opposing this bill have also resorted to the expedient of introducing technical and bewildering evidence before the committee, in order to mislead them into the belief that such a system as recommended is impractical. Yet this is the system as recommended for Washington, D. C., by an expert commission appointed by President Harrison, and also by an expert commission in Baltimore. Baltimore has accepted the report of their commission, and expended last year about $400,000 for municipal conduits, and will continue the construction this year. The actual evidence of impracticability which the corporation counsels have furnished has been contradicted by examples of such conduit construction and operation in cities like Philadelphia, Washington, Baltimore, Chicago, New York, and others that could be mentioned. Moreover, it is noteworthy that last year the only two engineers in the Committee on Mercantile Affairs, one a civil and the other a noted electrical engineer, both reported in favor of the Cambridge Conduit Bill, thus proving that they as engineers did not consider such a system impractical. The bill provides that the plan of construction must be passed upon by the Board of Electric Light and Gas Commissioners which in itself is sufficient safeguard as to its proper construction.

In conclusion, I would ask, is it not better that the City should issue bonds and build conduits and lease ducts to the corporations and own the conduit at maturity of the bonds, than that the companies should issue bonds and build the conduits? In the latter case the company will pay a greater rate of interest than the municipality, and if they provide a sinking fund to refund bonds at maturity they are enabled to charge off annually a large amount to their fixed expense account, which will necessarily make their service higher than under municipal control. Also at maturity the corporation will own the conduits, which becomes a valuable asset and is lost to the City.

SUPERVISION OF ELECTRIC WIRES AND POLES IN THE STREETS.

This year has seen no long continuous pole lines erected by any company, for the reason that the streets are generally well covered by pole lines. In many instances it might be said that they are overburdened with poles. There have been, however, seventy-one poles set in the public streets by the different companies during the past year against fourteen removed.

The following table shows the number of poles set in the public streets of the City on December 1, 1899, and 1900 respectively; also the increase for last year:—

Owner.	Number of poles on Dec. 1, 1899.	Nnmber of poles on Dec. 1, 1900.	Increase in 1900.
Cambridge Electric Light Company .	3,047	3,081	34
N. E. Telephone and Telegraph Company	912	949	37
Boston Elevated Railway Company .	841	832	9*
City	6	1	5*
Total number of poles . . .	4,806	4,863	57

*Decrease.

Of these poles all are wood except 807 iron poles, belonging to the Boston Elevated Railway Company.

The following tabulation shows the joint ownership of poles on December 1, 1900:—

Cambridge Electric Light Company and Boston Elevated Railroad Company	738
Cambridge Electric Light Company and New England Telephone and Telegraph Company	14

The following table shows the length and duct feet of conduit laid (not including service connections) when laid and by whom owned:—

Owner.	Date of Construction.	Length.	Duct feet.
Boston Elevated Railway Co. . . .	1897	6,236.3	138,195.1
New England Telephone & Telegraph Co.	1888	11,616.1	75,343.7
" " " " " "	1898	55,196.	470,839.4
" " " " " "	1899	5,079.3	28,097.7
" " " " " "	enlargement to 1888 conduit		19,266.9
		78,127.7	731,742.8

Total length of conduit laid in this City is 14¾ miles.

It has been the policy of your Inspector to oppose all grants of pole locations to any company whatsoever, where in his opinion the pole asked for was unnecessary and service could be satisfactorily furnished by other methods, as for example, the attachment of wires belonging to one company to the poles of another company.

Sections 3, 4, 5 and 6, Chapter 109, of the Public Statutes, recognize the fact that poles are an injury to abutting land by stating that the "owner of land near to or adjoining a highway or road along which lines are constructed by the company, who considers himself injured thereby, may within three months after such construction apply to the Mayor and Aldermen or Selectmen to assess and apprize his damages," etc.

Over a year ago the Telephone Company asked for the relocation of their Putnam Avenue pole line. This fact was set forth in last year's report of this department in the following words: "At the present time a petition is pending before your honorable body asking for a relocation in Putnam Avenue for a telephone pole line. This avenue at the present

Plate No. 3 — Church St., showing three poles on a five-foot sidewalk

Plate No. 4 — Bigelow St., near Mass. Ave., showing an electric light pole and a telephone outlet pole

time has an iron pole line on each side of the street belonging to the Street Railway Company, and also a wooden telephone pole line on one side. Your Inspector, therefore, recommends that on one side of the street the iron poles of the railway company be removed, and that their span wires be attached to telephone poles on that side of the street; these latter poles to be so located as to allow this to be done. If this be done, then twelve poles can be removed on Putnam Avenue, between Pleasant and Brookline Streets, without curtailing the facilities now enjoyed by either company."

During the past year your Inspector sought to secure this consolidation of pole line interests on that street, but no understanding could be reached with the companies, as the West End Railway Company refused to give up their locations and make attachment to the telephone poles, as a small expense would be incurred for changing their wires.

Whether such a condition should remain and exist is for the City Council to determine. Your Inspector would, however, recommend that special attention be given this matter, and that the limit of the powers of a municipality in regard to the abatement of such a nuisance be determined by appeal to the court of last resort if necessary.

A similar condition exists today also on Cambridge Street from Bridge Street to Prospect Street, on Main Street, and also in many other individual cases where two poles are located side by side. If it is to be impossible to combine these pole lines into one on each side of the street, when the necessity arises to rebuild one of these lines, then I would recommend that steps be taken at once to determine the authority of the City in this matter. If the City has no authority, then I would recommend that they appeal to the Legislature for such authority.

To more forcibly bring the attention of the City Council to this matter, I have reproduced in this report a few photographs showing the condition of some of our public streets overburdened by poles. Plate No. 1 shows Blackstone Street with an electric light pole line. Plate No. 2 shows Blackstone Street with an electric light pole line on one side and three telephone poles on the other side. This shows a case where three poles are erected to carry two wires which could well have been carried on a line already erected by another company. Plate No. 3 shows three poles on Church Street erected on a sidewalk, the breadth of which is only five feet. This gives a clearance between pole and fence of only three and one-quarter feet. An underground duct should have been laid on this street to carry the cable instead of attaching it to poles. Plate No. 4 shows two poles on Bigelow Street, the left hand pole is unnecessary as distribution could have been made from the right hand pole already erected. Plate No. 5 shows seven poles on Putnam Avenue

near Pearl Street in a distance of 220 feet, whereas four poles would be sufficient provided the telephone and railway companies would combine their pole lines on this street, as recommended last year and again this year. Plate No. 6 shows two pole lines on Binney Street where one pole line has sufficient capacity for all wires.

The hard pine planed and chamfered pole as installed on our streets possesses undoubtedly the best appearance of any kind of wooden pole, but they are liable to rapid deterioration. In many cases poles set five years ago have been reset as decay set in at sidewalk level of pole. It would seem that the life of such a pole is not much longer than eight or nine years if set in the street without cement or preservative treatment. The Electric Light Company this year replaced 118 of such poles on account of decay.

A complete set of conduit plans are now on file at this office giving full information and data as to size and location of the conduits. The operating companies have also filed plans, the past year, of all pole locations or relocations. These plans have been indexed in connection with the City Government orders of grant, by a card catalogue system. All of the orders of the City Council affecting this department which have been received the past five years while your present incumbent has been in office, have been filed in a book and cross indexed in the same card catalogue. A complete and accessible record of that branch of department work is now obtainable.

I would again call the attention of the City Council to the desirability of reserving to the City the right to authorize the attachment of wires and cables, municipal or otherwise, to the elevated railway structures wherever the same shall be constructed. This right should be reserved in the order of grant. If this arrangement be made, then practically all poles can be removed from streets upon which the elevated railway may erect these structures.

I would suggest that ample provision be made for the construction of conduits in the new Cambridge Bridge. Space should be provided for the telegraph, telephone and the municipal signal wires, the electric light and power wires and also for street railway wires. Sufficient capacity should be provided for the present needs of such service and the future demands.

RECORD OF ACCIDENTS AND DEATHS RESULTING FROM ELECTRIC SHOCKS FOR THE YEAR 1900.

It becomes the sad duty of your Inspector to record this year the death of three linemen from shocks received while at work on poles in this City. The fall of one of these lineman from a pole also resulted

in the death of a boy whom he struck in his descent. In addition to these four deaths resulting from overhead wires in our streets was the death of an employee of the Cambridge Electric Light Company, while at work in the station of that Company.

On March 20, 1900, Mr. Colin W. Chisholm, an employe of the Cambridge Electric Light Company, while at work on a pole in Central Square making a transformer connection, received a shock from the 2,000 volt alternating circuit which caused him to fall from the pole. The injuries sustained resulted in his death at the Cambridge Hospital the following day.

On June 2, 1900, Mr. Thomas Sabean, an employe of the Postal Telegraph Company, while at work on a pole on Boylston Street, near Brattle Square, received a shock causing him to fall to the ground. At the time of the accident he was tying a cable to a supporting wire, and supported himself by throwing one leg over this wire. This wire was grounded by a telephone cable at this same pole. Through some accident, one hand came in contact with one of the wires of the 2,000 volt alternating circuit, which resulted in a shock through his body. This shock caused him to fall, and the injuries sustained caused his death soon after at the Cambridge Hospital.

On June 12, 1900, Mr. John Kelliher, an employe of the New England Telephone and Telegraph Company, while at work on an electric light pole on Rice Street, near Massachusetts Avenue, received a shock from these wires. He was engaged in running a telephone wire, one end of which was trailing on the ground and at the same time he came in contact with one of the 2,000 volt alternating circuit wires of the Electric Light Company. He suffered severe injuries to his hands.

On June 25, 1900, Mr. John Smith, a lineman in the employ of the Boston Elevated Railway Company, while at work on a pole on Bridge Street, corner of Fourth Street, fell from the pole as the result of an insulator pin giving way. In his fall he struck a young boy named Eugene Kelly. They both died shortly after from injuries received.

On August 7, 1900, Mr. Henry Wells, an employe in the station of the Cambridge Electric Light Company, while attempting to get out of the cage of their travelling crane received a shock. It would appear that one of his feet came in contact with one of the 2,000 volt alternating circuit wires, at the same time his body was grounded in the iron cage. The shock received caused instant death.

On September 12, 1900, Mr. Robert Phelps, an employee of the Cambridge Electric Light Company, while at work on a pole on Lee Street, near Harvard Street, was injured by being thrown from the pole which was broken from wind pressure. The injuries received were not very serious.

CONDUIT ACCIDENT.

On August 11, 1900, John Binney, an employe of the New England Telephone and Telegraph Company, while at work in a man-hole belonging to that Company at the corner of Portland Street and Broadway, was overcome by gas. He was removed to the Massachusetts General Hospital, where he recovered.

FIRE ALARM SYSTEM.

This year has seen several improvements in the central station equipment. The storage batteries and switchboard purchased toward the end of last year have been set up and connected into service. These batteries have resulted in improved service and have prevented odd blows at night on our fast times service which were caused by losing the supply current to our motor generators. The gravity batteries of 325 cells have also been dispensed with.

To further improve the service I would recommend the purchase of a duplicate set of storage batteries, so that we can operate our system with batteries by day as well as by night. The switchboard and battery racks have been constructed and wired with this object in view, so that the only additional expense would be in the cost of the batteries. I would also recommend the operation of our fast time circuits from batteries rather than from the present generators.

Six fire alarm boxes and eighteen keyless doors for attachment to our present boxes, purchased last November, have been installed, as well as box number 19 on Massachusetts Avenue near Amherst Street. All boxes, where necessary, have been painted and varnished, as well as the red band on the pole on which they are located. A special metallic sign, giving directions for transmitting an alarm, has also been designed and provided for all boxes with keyless doors.

The total number of bell alarms sounded this year, exclusive of no school and curfew, was 178 against 222 of the previous year. This number includes two second, two third and one general alarm. In addition there were six no school signals transmitted. Since May 14th the curfew has been sounded each night at 9.30 P. M.

The Fire Alarm System comprises at the present time, one Central Station and equipment, 101 street fire signal boxes and twenty-three private signal boxes. The number of boxes equipped with keyless doors is twenty-eight, while eleven are provided with a glass front key box. The length of circuit wires comprising this system is about ninety miles. The alarms are sounded on ten bells and three steam whistles in addition to the gongs in the houses of the different apparatus and the tappers in the

Plate No. 5 — Putnam Ave., Cor. Pearl St., showing seven poles within 220 ft. on the same side of the street

Plate No. 6 — Binney St., between Portland and Ninth St. Note the spare capacity of each pole line

residences of the members. The firemen have sixty tappers installed in their homes and eight in factories where they are employed. Of the tappers in the homes of the men, twenty-five are furnished to permanent members of the fire department and thirty-five to call members. The members of this department are connected with the Central Station by private telephone system to enable them to be summoned immediately when wanted either by day or night. Your Inspector has yet to hear of any city of similar size so well equipped as regards number of signalling apparatus.

Your Inspector would ask your consideration of the following fact: Under legislative authority the City is given the right to pension its firemen and police officers on account of injuries received or age, but no provision is made for the men on fire alarm and police signal service when such men are not regular members of such fire or police department. It would only seem just and proper that legislative authority should be sought to extend to the members of this department who are on regular and continuous service, the benefit of a pension system, the same as the firemen and police officers.

It is very important that the members of this department should be retained as long as they render efficient and satisfactory service. It requires a much longer time to acquaint and familiarize the members of this department with their duties and the operation of the signal system than it does to instruct a fireman or police officer in their duties. Moreover a technical skill is required which can not be readily obtained, since there are only a few commercial organizations employing apparatus and machinery similar to the Fire Alarm and Police Signal Systems.

Your Inspector would again ask this year that a sufficient appropriation be made to allow the department to equip its fire alarm boxes, which are not yet provided with a non-interference pull with such a device. These pulls, if installed, would prevent the liability of a mixed up alarm from one of these boxes, due to the pulling of the box several times in rapid succession. He would also recommend the substituting of reverse current magnets in place of direct acting magnets in the tower strikers and whistles. This would obviate the present need of relays and local batteries, and would therefore render the service more reliable.

Again this year would your Inspector recommend that sufficient appropriation be made for the ensuing year to allow for a night operator at our Central Station. At the present time, the City is dependent upon the members of the day force who sleep at the Central Station for the transmitting of an alarm of fire at night. This, of course, requires that such members shall be suddenly awakened from sleep in order to transmit the alarm without loss of time. The strain thus thrust upon the operator

has been such that it has resulted in the breaking down of the health of two members during the past five years, and who were therefore compelled to resign from the service. This position is a responsible one, and ought to have an operator continually on duty by night as well as by day.

This year must your Inspector call the attention of the City Council to the obvious need of a new Central Fire Alarm Station as well as providing for the burial of the wires of both the Fire Alarm and Police Signal Systems. He would reiterate his statement made last year by quoting from last year's report of this department: —

"The necessity of a Central Fire Alarm Station is made prominent by two factors. First, the unsuitability of the present Central Station in its present arrangements and housing. Secondly, from the fact that the time has now come for the City to bury its wires. When this is done it should be arranged so that they may remain undisturbed for a period of years, and consequently the center of distribution of such a system should remain fixed. If such a provision be not made then much necessary expense will later fall upon the City if this center of distribution be changed. This necessitates therefore, that the location of the Central Fire Alarm Station be now fixed for the future.

The Fire Alarm System is to the Fire Department what the signal system on board a battleship is to the gun crews. In this latter case the system centralizes in the conning tower and is therefore most carefully protected from all injury as far as it is possible to do so. Likewise in the case of a City Fire Alarm System, the center of distribution or Central Station should be protected from fire or injury as much as possible. Likewise its distributing wires should be placed underground to assure the continuous operation of such a system.

The present Fire Alarm Headquarters are located on the third floor of the Brattle Square Building. This building itself is far from being fireproof, and, moreover, is occupied for several different purposes. It should be borne in mind that even if the Fire Alarm System quarters did not take fire, but should be drenched with water in case of fire in another part of the building, that this would probably result in a paralyzing of the Fire Alarm System for a short period of time at least.

There are at the present time entering this station, independent of the Police Signal System, twenty-one metallic circuits, numbering forty-two wires. This comprises ten box circuits, three fast-time circuits, two local circuits, and six telephone circuits.

The present apparatus room is not conveniently situated in respect to the other rooms of the department. The individual pieces of apparatus and their wiring is not so mounted as to be readily accessible. The apparatus should all be mounted upon slate, and arranged as in all new model central stations in conformity with good engineering practice. While many improvements have been made towards this end, yet it will be impossible to remedy this without entirely renovating the present Central office.

In addition to these defects, there is not a properly equipped work

shop or store room for the use of this department. The emergency wagon is kept in a basement totally unfit for such use, and the horse for the same is kept unstairs in Truck No. 1's house. The other two teams of the department are kept at private stables.

Your Inspector, therefore, urgently requests that steps be taken at the beginning of the ensuing year to decide whether a new Fire Alarm Station shall be built, and where, in order that the fire alarm wires may be put underground next year. The City has at present 14.7 miles of duct ready to receive the wires."

Several petitions are on file asking for the location of a fire alarm box in their several respective localities. While it would be desirable to locate a fire alarm box in many of the locations asked for, as well as in several other places, yet nevertheless it has been impossible to do so for lack of sufficient appropriation.

POLICE SIGNAL SYSTEM.

The Police Signal System has received more attention the past year, as the dispensing with the gravity batteries formerly maintained for the Fire Alarm System has made available the services of a man for a greater part of his time. Inspection of boxes has been made at more frequent intervals, and they have all been painted this year.

During the past year a duplicate set of storage batteries has been bought and installed for the operation of the Station 1 system. These batteries have dispensed with the motor generators formerly used to operate that system, and are giving much better satisfaction. They also have dispensed with the gravity batteries formerly used for telephoning over the system. The wiring from the Station 1 table to these batteries has been connected through the switches and instruments provided for them on the fire alarm storage battery switchboard. By this method the batteries are readily charged and tested and are under constant supervision.

This department urgently needs a new time-stamp, in order that the present time-stamps can be taken off our police tables and regularly cleaned. At the present time there is no spare time-stamp, therefore whenever one is cleaned the police signal system for that station must operate without their automatic time-stamp.

Five police boxes, bought at the end of last year, but not then installed, have been installed and connected in service this year, although others are urgently needed. The appropriation was insufficient to allow of such purchase.

One of the most, if not the most, essential service to be performed by any police signal system is the furnishing of telephone communication

between the patrol box and the police station. The importance of such service, moreover, is greater at night than during the day. That service is not properly furnished by many of our patrol boxes at night on account of induction troubles on our overhead lines. These induction troubles, while noticeable during the day, render telephonic communication at night impossible in many cases as soon as the City arc lamp circuits are turned on. Using as we do, for simplicity, a series telephone system, we cannot balance our overhead circuits of single conductors so as to neutralize this effect. The only remedy is to adopt a cable system, either overhead or underground. To equip our present overhead system with the cheapest form of cable would cost nearly $5,000. This money could much better be spent towards permanent construction by having the circuits placed in underground cables.

The City can at the present time connect with over 50 per cent. of the police boxes through the underground ducts reserved for City use. The remaining boxes could be reached with short sections of overhead cables. The police department private telephone system could be entirely placed in underground conduits. For the past three years your Inspector has sought to secure an appropriation to this end, but without avail, although it is of the most urgent necessity.

The personnel of this department has remained unchanged during the past year, and to its members I desire to render thanks for their observance of their duties.

The Police Signal System comprises at the present time three complete station equipments, two patrol wagon house equipments and eighty street patrol boxes. There is also a private telephone system connecting the Chief's office and the four station houses. The total length of circuit wires connected with the system is about forty-five miles.

ELECTRICAL CONSTRUCTION WORK.

Very little construction work outside of that on the Fire Alarm and Police Signal Systems has been attempted the past year. This department has, however, as has been customary in the past, looked after the gongs, bells, batteries, etc., in the public buildings. Many small cases of repair work on electric lighting wires have also been done for the Building Department. Such work has, however, been paid for by the Building Department.

CONSULTING ELECTRICAL ENGINEERING FOR THE MUNICIPAL DEPARTMENTS.

This year has seen very little engineering work done by this department, as advice has been asked for only in a few minor instances, such as, for example, to report a remedy for a poorly lighted school room.

GENERAL ELECTRICAL EXPERT WORK FOR THE CITY.

This year your City Electrician, in company with Mr. G. A. A. Pevey, the City Solicitor, visited New York, Philadelphia, Baltimore and Washington for information regarding conduits. We investigated the conduit systems in these cities as regards their franchises, cost and method of construction, manner of operation, etc. We also sought to discover the advantages and defects of such systems in their practical operation. Very valuable data and statistics were obtained as we were courteously treated in each of these cities. The information secured was used before the Committee on Mercantile Affairs of the State Legislature when they gave hearings on the petition of this City for municipal conduits. The electrical or technical side of conduit construction was presented by your City Electrician who was the only expert that the City brought forward on account of lack of appropriation. The information presented before that Committee by your City Solicitor and City Electrician resulted however in a favorable report by that Committee. The only two engineers on that Committee, namely a civil and an electrical engineer, voted in favor of the Cambridge Conduit Bill.

Your City Electrician attended in September last the annual convention of the International Association of Muncipal Electricians of this country and Canada held at Pittsburg, Pa. The entire expense of this trip was paid for personally by your City Electrician. Valuable information and acquaintanceship was secured, but it does not seem proper that your City Electrician should continue to bear such expense for information which is for the benefit of the City. It is the custom for corporations to send at their expense delegates to their national association meetings. The municipalities will surely be at a disadvantage if their officers can not meet yearly for an exchange of ideas and experiences while the semi-quasi public companies are having conventions. These semi-quasi public corporations, through their associations, are diffusing data and statistics among themselves for their personal benefit and are keeping each other in touch with the legislative and municipal tendencies throughout this country. It is only by the proper municipal officers uniting and likewise seeking information that the cities can be in a position to cope with these powerful corporations.

INVENTORY OF THE WIRE DIVISION.

Fire alarm apparatus and machinery	$13,320 00
Fire alarm supply and reserve apparatus	910 00
Fire alarm circuit wires and cross-arms	2,050 00
Ninety-six fire alarm boxes	5,680 00
Police signal apparatus and machinery	3,050 00
Police signal supply and reserve apparatus	150 00

INVENTORY OF THE WIRE DIVISION — *Continued.*

Police signal circuit wires and cross-arms	$2,320 00
Police signal, one-tenth mile of cable	165 00
Eighty police signal boxes	11,850 00
Testing instruments	465 00
Tools	550 00
Furnishings	450 00
Stock on hand.	700 00
Old and unused apparatus (depreciated value)	600 00
Miscellaneous supplies	130 00
Horses and teams	260 00
Bell tower in Belmont school yard	400 00
	$43,050 00

The fire alarm and police telegraph account has been taken in detail except that relating to overhead wires and fixtures, but an approximate cost of these has been given. No account of the stringing of these wires or the wiring inside of buildings for the connection of the different instruments has been considered, for the reason that such a cost is not known, and moreover the overhead wires must be removed and placed in conduits within a few years, consequently that value as an asset would then disappear. The inventory has been taken at a cost value, as far as the same can be ascertained, unless otherwise specified. No account has been taken of depreciation. The total inventory is therefore less than the cost of construction, but exceeds a fair market value.

REPORT OF STREET LIGHTING DIVISION.

In compliance with the ordinances the financial and statistical statement relating to street lighting is herewith submitted :—

FINANCIAL STATEMENT.

A more detailed account can be found in the Auditor's report.

The amount appropriated	$72,000 00
Balance unexpended	1 22

The principal items of expense are as follows :—

For arc lighting	$50,678 64
For incandescent lighting	11,275 74
For Welsbach gas lighting	8,412 17
Salary of Superintendent	1,000 00

The expense for electric lighting has been as follows :—

ARC LAMPS.

Amount of bills rendered	$50,893 20
Amount of deduction for outage	214 56
Amount expended for arc lighting	$50,678 64

INCANDESCENT LAMPS.

Amount of bills rendered	$11,293 32
Amount of deduction for outage	17 58
Amount expended for incandescent lighting	$11,275 74

The expense for gas lighting has been as follows:—

WELSBACH GAS LAMPS.

Amount of bills rendered	$8,428 55
Amount of deduction for outage	16 38
Amount expended for Welsbach gas lighting	$8,412 17

STATISTICAL STATEMENT.

The number of hours in which one or more lamps failed to burn is:—

For arc lamps	5,364
For incandescent lamps	1,758
For Welsbach gas lamps	1,638
Total outage hours for all lamps for year 1900	8,760

The total number of lamps on throughfares, parks and bridges maintained by the different City departments as follows:—

	Maintained by Lamp Department.	Park Department.	Bridge Department	Totals.
Arc lamps	512½*	14	13	539½*
Incandescent lamps	387	2	42	431
Welsbach gas lamps	286	2		288
Welsbach naptha lamps		88		88
Total lamps	1,185½*	106	55	1,346½*

Grand total number of street, park and bridge lamps maintained in the City of Cambridge on November 30, 1900, 1,346½*.

* Half of the expense of one arc lamp borne by private parties.

INVENTORY OF LAMP DIVISION.

286 lamps posts set in streets, at $10.00	$2,860 00
Office furniture	201 00
Stock on hand in City Hall	190 00
Stock on hand in Central Square Building	285 00
Horse and team	440 00
	$3,976 00

This inventory does not take account of any unused lamp posts which remain upon the public streets, in as much as the number is not known and in many cases the ownership, whether municipal or private, is doubtful.

TABULATION SHOWING APPROPRIATION EXPENDED AND NUMBER OF LAMPS MAINTAINED EACH YEAR FROM 1890 TO 1900 INCLUSIVE, WITH OUTAGE HOURS FOR ELECTRIC LIGHTS.

Year.	Appropriation Expended.	Number of Oil Lamps.	Number of Gas Lamps.	Number of Welsbach Gas Lamps.	Number of Incandescents.	Number of Arc Lamps.	Total Number of Lamps.	Outage hours for Electric Lamps.
1890	$49,269 02	98	722 4 feet		197 32 c. p.	116 2000 c. p.	1,133	17,457
1891	47,989 92	98 7 naptha	637		143	164	1,049	36,805
1892	63,862 68	56	299 5 feet		114	437 1200 c. p.	906	10,254
1893	66,615 93	32	300		168	447	947	7,166
1894	68,988 81	29	302		204	447	982	8,502
1895	69,926 61	25	296		233	448	1,002	6,776
1896	67,325 31	24	287		266 40 c. p.	471	1,048	7,027
1897	69,264 96	23	21	259	297	498	1,098	9,616
1898	69,182 20			266	363	515	1,144	56,194
1899	71,980 42			280	369†	507†	1,156†	8,479
1900	71,998 78			286	387	512½*	1,185½*	7,122

* Half the expense of one arc lamp maintained by private party.

† Park Department maintains 14 arcs and 2 incandescents formerly maintained by this department.

TABULATION SHOWING COST PER LAMP PER YEAR FROM 1890 TO 1900, INCLUSIVE, WITH NUMBER OF HOURS EACH LAMP BURNED.

Year.	Oil Lamps.		Gas Lamps.			Welsbach Gas Lamps.		Incandescent Lamps.			Arc Lamps.		
	Annual Cost per Lamp.	Hours of Lighting.	Annual Cost per Lamp.	Hours of Lighting.	Size of Burner.	Annual Cost per Lamp.	Hours of Lighting.	Annual Cost per Lamp.	Hours of Lighting.	Candle Power.	Annual Cost per Lamp.	Hours of Lighting.	Candle Power.
1890	$12 74	3,694	$29 71	3,694	4-foot burner			$30 00		32 c. p.	$180 00		2,000 c.p.
1891	14 43	3,833	29 14	3,833	4-foot burner			30 00	3,953	32 c. p.	180 00 115 00	3,953 4,000	2,000 c.p. 1,200 c.p.
1892	16 10	3,676	33 13	3,676	5-foot burner			30 00	4,000	32 c. p.	115 00	4,000	1,200 c. p.
1893	16 22		32 77		5-foot burner			30 00	4,000	32 c. p.	115 00	4,000	1,200 c. p.
1894	16 39	3,270	33 47	3,270	5-foot burner			30 00	4,000	32 c. p.	115 00	4,000	1,200 c. p.
1895	17 79	3,566	32 90	3,566	5-foot burner			30 00	4,000	32 c. p.	115 00	4,000	1,200 c. p.
1896	17 40	3,628	33 15	3,628	5-foot burner			30 00	3,900	32 c. p. 40 c. p.	115 00 100 00	3,900	1,200 c. p.
1897	17 78	3,628	32 41	3,628	5-foot burner			30 00	3,900	40 c. p.	100 00	3,900	1,200 c. p.
1898						$29 88	3,700	30 00	3,900	40 c. p.	100 00	3,900	1,200 c. p.
1899						29 88	3,900	30 00	3,900	40 c. p.	100 00	3,900	1,200 c. p.
1900						29 88	3,900	30 00	3,900	40 c. p.	100 00	3,900	1,200 c. p.

On account of lack of sufficient appropriation to allow for installing new lamps this year, only one trip was made at night by the Committee on Lamps and Wires. This trip was made in the early spring and the lamps then installed practically exhausted the amount available for new lamps.

Three types of lamps are now maintained by this department, namely, arc, series incandescent lamps and Welsbach gas lamps. All of these lamps are lighted from dusk to dawn, each and every night, and burn under a schedule of 3,900 hours of lighting per year. Each of these types of lamps has its relative advantage if price be considered, and its suitability must be determined for each individual case.

The arc lamps are the open type sub-arc 1,200 candle power, so-called, consuming 6.8 amperes of current, and cost $100.00 per year.

The incandescent lamps are of the series type of 6.8 amperes and forty candle power, and cost $30.00 per year.

The Welsbach gas lamps consuming three cubic feet of gas per hour and of sixty candle power, cost $29.88 per year.

The entire cost of installation of the electric lamps is borne by the contracting company, while the lamp posts for the Welsbach gas lamps are erected at the expense of the City, but the lanterns are furnished by the Welsbach Company.

The condition of city lighting for the past eleven years is shown by the tabulations which give the annual appropriations, number and kind of lamps, cost per lamp, the candle power and hours of burning.

Bridge and park lamps are now maintained by their respective departments, while formerly all the park lamps were maintained by this department.

One of the most serious difficulties encountered in lighting this City arises from the fact that the streets are in many cases not continuous. This means that one lamp which would ordinarily light in four directions will only light in three directions, or, in other words, 25 per cent. of the light is lost for street illumination. These cases, which are numerous, require additional lights and involve a large annual expense.

Another difficulty is the heavy tree foliage which abounds in this City during the summer months. Last year the Park Department, at the request of your Superintendent, trimmed out the lower branches of many trees which interfered with the lighting. There are however a large number of young trees, the limbs of which could not be removed without injury to the trees, that destroy the effective lighting of our streets. Some lamps have consequently been relocated so as to avoid this difficulty.

In many cases in this City the arc lamps are located at street corners

on one street and on the next parallel street they are placed midway between the intersecting streets. This was done to avoid expense as it requires one less lamp for streets so lighted. It has however this serious difficulty, that the lamp placed in the centre of a block lights in only two directions, whereas if placed at street intersections it would light in four directions. I would therefore recommend that this method of arrangement be changed and that the arc lamps, as far as possible and practical, be placed at street intersections. If illumination is necessary between the intersecting streets an incandescent lamp can be installed.

Your Superintendent believes that the arc lamp outage could be nearly all obviated if the present type of arc lamp be replaced by an enclosed type of arc lamp as used in Boston. The light would be moreover much steadier and the shadows cast near to the lamp would be less intense. This matter should be again considered this year when the contract is made for the ensuing year. If any change is to be made it can best be done next year as the Electric Light Company is to build a new central station.

The Cambridge Gas Company are building this year a large addition to their plant for the purpose of making water gas. This gas is the same as used in Boston and is very dangerous to life when inhaled. In a pure state it is odorless and deadly poisonous. The Cambridge Gas Company contemplate however mixing this gas with their coal gas, which will render it odorous, but the present gas will be rendered more poisonous by this mixture. How far a corporation shall be permitted to increase the poisonous effect of the gas supplied to a municipality in order to save expense I would respectfully refer to your honorable body.

To the Chairman and members of the Lamp and Wire Committee I desire to extend my thanks for the courtesy shown me the past year.

Respectfullly submitted,

CHARLES F. HOPEWELL,
Inspector of Wires.
Acting City Electrician.

REPORT OF THE BOARD OF PARK COMMISSIONERS

To the Honorable, the City Council of the City of Cambridge :—

Gentlemen :—The Board of Park Commissioners has the honor to submit herewith its eighth annual report for the year ending November 30, 1900, and also the seventh annual report of the General Superintendent of Parks, as required by Section 4 of the Ordinance establishing a Park Department.

On January 22, 1900, the Board submitted the following recommendation :—

Cambridge, January 22, 1900.

To the Honorable, the City Council of the City of Cambridge :—

Gentlemen :—The Park Commissioners respectfully request that His Honor, the Mayor, be authorized and requested, for and in behalf of the City of Cambridge, to petition the Legislature of this Commonwealth at its present session, for such legislation as will place in the exclusive control of the Park Commissioners of the City the planting, care, removal, cutting and trimming of trees and shrubs now and that may hereafter be placed in the streets, commons, parks, squares and other public places and grounds of this City.

Respectfully,

H. E. WHITING,
Clerk of the Board.

In accordance with the above recommendation the Legislature was petitioned and on March 21, 1900, the following Act was approved :—

An Act to Transfer to the Park Commissioners of the City of Cambridge all the Powers and Authority Now Vested by Law in the Board of Aldermen and Surveyor of Highways in Relation to Trees and Shrubs.

Be it enacted, etc., as follows :—

Section 1. All the powers and authority vested by law at the time of the passage of this Act in the Board of Aldermen and Surveyor of Highways of the City of Cambridge, in respect to trees and shrubs now or hereafter planted or growing in the streets, roads, squares, courts, parks, public gardens and other enclosures in said City, are hereby transferred to and vested in the Park Commissioners of the City, who shall have exclusive powers to act in respect to the setting out, planting, care, maintenance, removal, cutting and trimming of such trees and shrubs.

Sec. 2. Chapter one hundred and sixty-nine of the Acts of the year eighteen hundred and ninety-seven is hereby repealed.

Sec. 3. This Act shall take effect upon its passage.

Approved March 21, 1900.

GENERAL CHARACTER OF THE WORK OF THE YEAR 1900.

In the report of 1899, the Commissioners state that "aside from the small amount of work proposed in the construction of the beach on the hospital river bank, and such bathing beach and bath house requirements as shall be demanded, the Commissioners propose no other work during the coming year, except in the direction of extension of the Esplanade from the end of the sea wall west of Harvard Bridge."

The work of the Commissioners during the past year has been confined strictly within the foregoing limits. With the exception of the construction of the river beach abutting on the Cambridge Hospital property and the extension of the bathing beach at Captain's Island, the work of the Commission has been directed to the completion of the work at the Esplanade which had been previously begun and to the extension of the same.

During the past year there has been spent and charged to the construction account the sum of $84,988.52, of which $11,426.49 represent the cost of the river beach at the hospital; $33,519.03 represent the cost of the extension of the bathing beach, construction of the wooden bath houses and other construction work at Captain's Island; $31,609.77 for the extension of the Esplanade up the river, including the straightening and ballasting of the sea wall and iron fence on the sea wall; and the balance of $8,433.23 is made up in general accounts.

At the beginning of the year the Commissioners expected to begin at once upon the serious undertaking of extending the Esplanade from its present terminus at the end of the sea wall west of Harvard Bridge to Brookline Street, but it was found to be impracticable to begin the work at that time for two reasons:—

First, because it was very desirable from the City's standpoint that the flats lying between the park line and the Grand Junction Railroad should be filled by the owners, and as a matter of economy both to the City and to the owners, that the flats should be filled and the Esplanade constructed at the same time and by the same contractor. Co-operation between the owners and the City would mean a saving of thousands of dollars to both parties. The flats were owned by numerous parties, and a common agreement could only be reached after numerous conferences.

The second reason why the work could not be begun was because the few dredging companies in this vicinity, who are capable of doing the work, had other large contracts on hand and could not make as favorable a price as they could later in the season. The result of the delay is that the owners of the abutting flats have finally decided to fill their property

at the same time that the City does its work, and to employ the same contractor, and the Commissioners have been able to obtain a proposal for the filling of the park area at a very favorable price. The work will be begun immediately, and within the coming year the Esplanade will undoubtedly be carried to Brookline Street and the flats between it and the railroad will be filled to grade.

The completion of the Esplanade to Brookline Street will bring up at once the question of the crossing over the tracks of the Grand Junction Railroad. Such a crossing is necessary in order to reach Brookline Street. It is impossible at the present time for the Commissioners to make any recommendation with reference to the character of the crossing. It has been suggested that, in view of the recent railroad consolidations, the tracks of the Grand Junction Railroad may be abandoned and the freight which is now carried over them diverted to the Watertown Branch of the Fitchburg Railroad by a new bridge near Watertown, and that such a change may be reasonably expected on the ground of economy, because, otherwise, the railroad will be obliged, under the act leasing the Boston & Albany Railroad to the New York Central Railroad, to incur large expense in the abolition of grade crossings. Should the tracks be removed there will be no question of a crossing to trouble us. On the other hand, should the tracks remain, it is probable that an overhead crossing will be required. Where that crossing shall be, whether near Brookline Street or at Henry Street or Putnam Avenue, is a matter which cannot now be determined. The question as to the construction of the dam across the river from St. Mary's Street and the location of a new bridge across the river in place of the present Brookline Street Bridge have a bearing on the location of the overhead crossing. It is hoped that, before the completion of the Esplanade to Brookline Street, some determination in regard to these various questions will be had.

In this connection, a reference may be had to the question as to the location of any dam across the river. In 1898, permission was given to the Metropolitan Park Commissioners to construct a dam at St. Mary's Street in Boston to the Cambridge side after having obtained consent of the United States authorities. Considerable objection has since been made to a dam at that point by the boating interests, who fear that it would be an obstruction to their straightaway course and thereby diminish the interests of boating. There are many people also who are very strongly in favor of a dam at or in the vicinity of Craigie Bridge. It has always seemed to your Commissioners that the logical location for a dam was at Craigie Bridge. They favored the passage of the act providing for a dam at St. Mary's Street, but largely for the reason that it would arouse

a public sentiment which would force the selection of the best location. Looking at the question broadly and without reference to private interests, there can be little doubt that a constant level of water throughout the whole basin would be far more attractive and useful than with conditions as they are at present. The Commissioners believe that some immediate action should be taken by the Metropolitan Park Commissioners either under the Act of the Legislature or in the direction of legislation for the Craigie Bridge location.

During the year the Metropolitan Park Commissioners have constructed a parkway through the Lowell Memorial Park from Mt. Auburn Street to Brattle Street and continued the same through private property to Huron Avenue, calling the same "Fresh Pond Parkway." This is intended as a portion of the connection between Charles River and the Mystic Valley Park System, the intention being to extend the same, when demanded, from Mt. Auburn Street to the river at what was formerly Gerry's Landing, there connecting with the Cambridge Park System and by a new bridge with the Speedway, and from Huron Avenue around and through the Fresh Pond Reservation to Spy Pond in Arlington and thence to Mystic Valley System. To make the necessary connection with the Speedway a new bridge will be required at Gerry's Landing. It is hoped that these connections may soon be made and that the bridge shall be of a style of construction suitable for its location, its use, and to insure permanency. The present terminus of the State Boulevard is at Huron Avenue. The Parkway has been carried through to Huron Avenue at a width of seventy feet. The City should take steps looking toward the construction of a new bridge over the Fitchburg Railroad to the full width of the Parkway and should widen the present roadway leading from Huron Avenue to Fresh Pond, in order that there should be a continuous driveway of uniform width. The connection between Fresh Pond and the Mystic Valley System is one which we trust will be undertaken by the State in the immediate future.

The matter of the rebuilding of the bridges across the Charles River is one which greatly concerns the Park Commissioners and the City. Under the present requirements of the United States authorities with reference to drawless bridges, such an elevation is required as to necessitate a large amount of work and expense in the construction of approaches. The river park driveways must encounter these approaches at every bridge, and the question whether the park driveways shall go under, or over, or on a level with these approaches is a serious one. The City, through its Park Commissioners, should have equal rights with the Bridge Commissioners in determining the character of the approaches.

THE ESPLANADE.

After many delays the construction of Riverbank Court, the new apartment hotel at Harvard Bridge, was begun in the spring. It was felt that the City must do its part towards making the surroundings attractive, and to that end undertook the completion of that part of the Esplanade which lay between West Boston Bridge and the terminus of the sea wall westerly of Harvard Bridge. For the protection of the public it was found necessary to erect an iron fence along the sea wall, but upon examination of the wall it was found that, either because it was imperfectly constructed or because of settlement, a large part of the wall needed to be reset and ballasted along practically its entire length. This work has been done. The iron fence has been erected along most of the wall and considerable work has been done in the way of surfacing and planting trees and shrubs. In response to requests from the Humane Society, the Commissioners have placed iron ladders at intervals of about three hundred and fifteen feet on the outside of the sea wall. Some work has been done by way of extension of the Esplanade up the river, but the bulk of the work has been to bring the uncompleted portion into a completed state.

CAPTAIN'S ISLAND.

The experience of the summer of 1899 convinced the Commissioners that there was a very decided popular demand for a bathing beach at Captain's Island. During that summer over twenty thousand people bathed at that beach. Anticipating that the number would increase rather than diminish the Commissioners decided that it was advisable to increase the bathing area. This was accomplished by an extension up river and regrading of the former beach for about six hundred and fifty feet, making a total frontage of eight hundred and fifty feet, diminishing the former slope of the original beach, thereby increasing the number of hours when the depth of water was suitable for bathing. The matter of accommodation of the bathers was one which gave and has given the Commissioners considerable perplexity. A bath house adapted to the purpose and suitable for erection on the park property was found to be quite expensive. It was felt that the time was not ripe to enter into any large expense and that, for the present at least, some temporary requirements only should be provided. Accordingly, the Commissioners erected with reluctance two temporary wooden bath houses, one for men and the other for women, leaving the stone magazine for use of boys, and with these limited accommodations over sixty thousand persons bathed during the last summer.

The demand, however, exceeded the supply. The bath houses proved insufficient for the numbers who desired to use them, and the Commissioners, now foreseeing that the use of the beach will increase each year, are obliged to recommend that a loan be provided which shall be sufficient to erect a permanent bath house and one calculated to meet, not only the present requirements, but those of many years to come. Otherwise, there can be at best a series of wooden sheds, which, while not costly, are unsightly, liable to burn down or be blown down and must of necessity have to be frequently renewed.

BOYLSTON STREET.

The construction of the new University boat house on the Boston side of the river has caused the abandonment of the old boat houses at the foot of DeWolf Street. These will be at once removed. As stated in the report for 1899, the Commissioners will terminate the tenancy of Richardson & Bacon this winter and proceed to remove their coal sheds. The result will be to open up the river from Boylston Street down to Western Avenue, and although the Commissioners do not expect to do any construction work on that section during the coming year, they will endeavor to make the river bank more attractive in such ways as are at their disposal.

HOSPITAL RIVER BANK.

The construction of the beach was undertaken in the spring and has been completed. The loam is in place for trees, which will be set out in the spring, and by permission of the trustees of the hospital, tree-pits have been dug and loam placed therein for a row of trees on the hospital property just inside of the line of the park taking. A little work on the path will be required in the spring in order to bring that section to a completed state.

RIVER PARKWAY.

The Commissioners realize a constantly increasing popular demand for the completion of the river road from Harvard Bridge to Boylston Street. The demand comes from all classes, the poor and the rich alike. Such portions of the road as have been completed have only whetted the popular taste, and it is only natural that such should be the case. The improvement of the unsightly banks, the improvement of the river by the dredging for material to use on the banks, the improvement of the abutting and adjacent property, the opening of a new and ornamental thoroughfare, the attractive appearance of the reservations, the pride that every citizen takes in viewing a public work well done, account for the pressure

which the Commissioners feel and find it difficult to forestall. The Commissioners are not only alive but responsive to the demand, and believe and recommend that the work should proceed without delay or interruption.

CAMBRIDGE AND SOMERVILLE BOULEVARD.

It is hoped the State will recognize this necessity of a connection between the Fells and Charles River and that it will authorize a sufficient loan to enable the Metropolitan Park Commission to build it at once. The reasons assigned by the Governor for his veto last year do not now prevail. The people of Boston and Cambridge demand a direct and continuous approach to the Fells. The people of Somerville and the towns beyond, a similar approach to Charles River and the Fens.

The connection should be a broad, continuous parkway with accommodations for car lines and light driving, with a possible provision for heavy teaming as well over some sections of the parkway.

The expenditure of money necessary for such a parkway will meet with popular approval, as it will make the great wooded reservation of the Fells and the boating privileges of the Charles available and accessible to the whole public.

SHADE TREES.

The Commissioners have been able to employ a tree inspector during the past season, who has made a systematic examination and written report of all the trees on every street in the City, from which it appears that there are over twenty-two hundred trees requiring immediate attention, and over twenty-nine hundred other trees requiring attention of one sort or another. The Commissioners are very desirous of doing the work called for by his report, but it will require a considerable addition to the maintenance appropriation. When the work has once been done, it is believed that there will not be much trouble or expense in keeping the trees in good condition. It must be remembered that very few of the trees in the City have ever received a moment's attention of any sort during their lives, which vary from one to one hundred years.

PEARL STREET TREES.

During the spring, the City Council voted to lay brick pavement on Pearl Street. By examination, it was found that many of the trees on the street were in bad condition, and that many others projected into the street to a sufficient extent to be dangerous to travel. The Commission, after many hearings and many vigorous remonstrances, finally decided to remove thirty-six trees. In deference to many requests, it left a number

of trees in place which it would otherwise have removed on the ground that they were a possible danger. Since the work of the reconstruction of the street has been completed, the Commissioners are convinced that it would be better to have removed all the trees, whether good or bad, which in any way projected their trunks sufficiently into the street to come in contact with the hub or rim of the wheel.

FUTURE CONSTRUCTION.

The extension of the Esplanade to Brookline Street will be the principal work of the Commissioners during the coming year.

The dyke at the upper end of the bathing beach will, if their means permit, be extended to River Street.

Whatever other construction work is undertaken will be merely in bringing incomplete work to completion.

COST OF PARK WORK.

From the beginning of park construction in 1893 to and including the year 1900, the City has issued in payment therefor its 3½ and 4 per cent. thirty and forty-year bonds, amounting to $1,163,098.15. Of this amount, $84,988.52 was spent in 1900.

The interest and sinking fund charges in 1900 were $59,400.00. The appropriation by the City Council for maintenance was $21,469.07 ($1,469.07 being revenue received from the bath houses).

The total amount raised by tax levy is $79,398.46, an increase over 1899 of $9,771.45. Of the increase $5,501.45 is due to an increase in the maintenance appropriation, and $4,270.00 to interest and sinking fund charges on the issue of bonds in 1900 of $100,000.00.

Based upon the 1900 census (91,886) the cost per capita of park construction and maintenance in 1900 is eighty-six cents.

Based upon the 1900 tax rate of $16.90 per thousand, eighty-four cents represent the cost on $1,000 to each tax payer.

FINANCIAL STATEMENT.

PARK LOAN.

Amount appropriated December 29, 1899	$27,581 70
Amount appropriated April 3, 1900	50,000 00
Amount appropriated July 5, 1900	50,000 00
	$127,581 70

PARK MAINTENANCE.

Amount appropriated April 3, 1900	$20,000 00
Revenue from Bath Houses	1,469 07
	$21,469 07

During the year bills payable from Park Loans have been approved by the Board and certified to the Auditor to the total amount of $84,988.52, as follows :—

PARK LANDS AND CONSTRUCTION.

River Parkway, Section A.		
Construction account	$2,645 11	$2,645 11
River Parkway, Section B.		
Construction account	24,481 14	24,481 14
River Parkway, Section C.		
Construction account	2,632 21	
Land account	1,851 31	
		4,483 52
River Parkway, Section D.		
Construction account	33,519 03	33,519 03
River Parkway, Section F.		
Construction account	737 53	737 53
River Parkway, Section G.		
Construction account	1,151 21	1,151 21
River Parkway, Section H.		
Construction account	11,426 49	11,426 49
Nursery.		
Construction account	1,007 35	1,007 35
East Cambridge Embankment.		
Construction account	82 67	82 67
Rindge Field.		
Construction account	68 50	68 50
Washington Elm.		
Construction account	27 00	27 00
General Account.		
Construction account	4,157 46	4,157 46
Office Expenses.		
Construction account	1,201 51	1,201 51
Total amount expended		$84,988 52
Balance unexpended		$42,593 18

During the year bills payable from Park Maintenance have been approved by the Board and certified to the Auditor to the total amount of $21,467.53, as follows :—

Shade trees	$4,696 38	
River Parkway, Section G	3,206 14	
Cambridge Field	3,189 38	
Bath House, Section D	2,817 75	
The Shelter	2,524 39	
Commons and squares	2,484 01	
Public grounds	2,102 89	
General account	304 89	
Rindge Field	141 70	
Total amount expended		$21,467 53
Balance unexpended		$1 54

From the above it will be seen that the amount expended during the year under Park Loans was divided as follows :—

Construction account	$83,137 21
Land account	1,851 31
Total	$84,988 52

A detailed classification of the expenditures will be found in the report of the General Superintendent.

Since the beginning of the work in 1893, there has been expended to date, of money raised under Park and Esplanade Loans, the sum of $1,163,098.15.

The division is as follows :—

River Parkway, Section A.		
Construction account	$154,341 21	
Land account	1,901 83	
		$156,243 04
River Parkway, Section B.		
Construction account	81,212 42	81,212 42
River Parkway, Section C.		
Construction account	2,863 34	
Land account	6,501 89	
		9,365 23
River Parkway, Section D.		
Construction account	79,397 93	
Land account	95,047 25	
		174,445 18
River Parkway, Section E.		
Construction account	18 75	
Land account	25 00	
		43 75
River Parkway, Section F.		
Construction account	22,329 33	
Land account	66,432 36	
		88,761 69
River Parkway, Section G.		
Construction account	120,528 21	
Land account	85,614 82	
		206,143 03
River Parkway, Section H.		
Construction account	11,426 49	11,426 49
Cambridge Field.		
Construction account	124,417 65	
Land account	78,884 85	
		203,302 50
East Cambridge Embankment.		
Construction account	86,755 34	
Land account	45,231 40	
		131,986 74
Rindge Field.		
Construction account	8,813 94	
Land account	31,461 85	
		40,275 79
Broadway Park.		
Construction account	11,308 65	11,308 65

Nursery.		
Construction account	4,470 02	4,470 02
Winthrop Square.		
Construction account	1,866 26	1,866 26
Hastings Square.		
Construction account	943 61	943 61
Washington Elm.		
Construction account	466 98	466 98
General Account.		
Construction account	34,622 26	34,622 26
Office Expenses.		
Construction account	10,708 90	10,708 90
		$1,167,592 54
Less Park revenue for 1894 and 1896 merged into land and construction accounts		4,494 39
		$1,163,098 15

Of the whole amount of Park Loans expended to December 1, 1900, 35 per cent. has been for land and 65 per cent. for construction, as follows:

Land account (less "revenues")	$406,606 86
Construction account	756,491 29
	$1,163,098 15

Respectfully submitted,

GEO. HOWLAND COX,
WILLIAM M. RICHARDSON,
EDMUND REARDON,
Park Commissioners.

REPORT OF THE GENERAL SUPERINTENDENT OF PARKS

CAMBRIDGE, December 1, 1900.

To the Board of Park Commissioners of the City of Cambridge:—

GENTLEMEN: — I have the honor to present my fourth annual report as General Superintendent of Parks, covering the financial year 1900.

RIVER PARKWAY.

SECTION A.

The chief work at this section this year, was the surfacing of the inner road from Section B to Main Street. A clayey gravel was spread over the surface of the road, which had been built of river gravel, to a depth of about two inches. The clayey material was thoroughly mixed with the river gravel, by means of a harrow, and the whole rolled with a twelve ton roller. This treatment produced a very durable surface which should last until it is thought best to macadamize the road.

Early in the Spring trees were set out on either side of both roadways, in the spaces prepared in the previous Fall, from Section B to within five hundred feet of Main Street. The trees planted were the same as those at Section B — Norway maples.

It is desirable that the watering system should be installed at this section early next year, as the new trees will necessarily require considerable water.

Edgestone was set at the cross streets, life ladders were placed on the sea wall about three hundred and fifteen feet apart, and about seventy-nine feet of iron fence were continued along the sea wall from Section B

SECTION B.

When it was decided to erect an iron fence on the sea wall in front of the Esplanade, the sea wall was found to have settled so much out of line and grade that it would be necessary to reset most of it before erecting the fence. On account of improper foundation and settlement, the wall had gotten out of line, in some cases as much as 9.6 inches and out of grade as much as eighteen inches. The wall was reset to grade 21, or six inches below the original grade.

The requirements in resetting west of Harvard Bridge were of so miscellaneous a nature that it was deemed best to do the work by the day,

and sloop, engine, tools and men were engaged at a cost of $20.00 per day. About 1,658 feet of wall were reset, the work varying from merely resetting the coping to resetting the wall to its full depth.

The work of resetting the wall east of Harvard Bridge seemed to be of such uniform character, that proposals were obtained from four contractors for doing the work. The lowest bid received, $3,365.00, was felt to be too high so the work was carried on by day work, as in the resetting west of Harvard Bridge. This work cost $1,520.95 or over 50 per cent. less than the price of the lowest bidder.

The total amount of wall reset on both sides of Harvard Bridge was about 3,213 feet and the total cost $3,137.95.

At the same time the wall was substantially ballasted with broken stone at a cost of $2,831.15, or $1.35 per cubic yard.

In June and July contracts were awarded for erecting 3,745.48 lineal feet of iron fence along the sea wall, 79.12 feet for Section A and 3,666.36 feet for Section B. The contract prices were $1.41½ per lineal foot for 1,136.15 feet, and $1.30 per lineal foot for 2,609.33 feet.

Iron life ladders have been placed about three hundred and fifteen feet apart on the face of the sea wall, from West Boston Bridge to the end of the wall west of Harvard Bridge. These ladders cost $18.75 each in place.

Considerable ashes and filling were received and used in extending the roadways and sidewalks to Section C.

Edgestone was set on the cross streets and in front of the Riverbank Court, asphalt crossings were laid along the west side of Massachusetts Avenue and a granolithic sidewalk was laid in front of the Riverbank Court. The City paid the cost of setting the edgestone in front of the Riverbank Court, and six cents per square foot of the cost of the granolithic sidewalk.

Aside from the work above mentioned, the chief expense was in taking care of the grass and planted spaces. Four men were employed almost constantly, in season, keeping the large area of grass in good condition. I would recommend that the central grass spaces, on either side of Massachusetts Avenue, be cut up into paths according to the path plan adopted. This would save considerable in the maintenance of the section.

SECTION C.

The construction of Section C, between Brookline Street and the Esplanade, was commenced this year, but not carried on to any great extent. Whenever filling material was obtainable at reasonable prices, it was purchased and used in building the inner roadway. Considerable

material was gotten from back of the sea wall at Section B, where the ballasting was done, and used in grading up the sidewalks. Some of the material which was thrown up from the Robinson Street sewer was secured, at a cost of $16\frac{2}{3}$ cents per cubic yard, being the cost of teaming.

Soundings, wash borings and estimates were made by the engineers for filling the whole section with material to be dredged from the river.

SECTION D.

During the winter months ashes at twenty-eight cents per cubic yard and filling at twenty-five and thirty cents per cubic yard were received and spread on the park road between Magazine and Brookline Streets, bringing the road up to sub-grade. The contract for binding gravel, which was extended from 1899, was then completed, and early in the summer the road was thrown open to public travel. The tree pits on either side of the road were dug, filled with loam and the trees, red oaks, set out.

In March proposals were asked for, for cutting away about 13,000 cubic yards of marsh along the river bank, from the foot of Magazine Street, westerly, and delivering part of the same on the playfield east of Magazine Street, part on the site of the proposed bath house and the remainder on the site of the proposed dyke, near the foot of Pleasant Street. The contract was awarded to the lowest bidder at a price of thirty-four cents per cubic yard, and the work commenced in April and finished in July, 10,800 cubic yards having been excavated. In May a contract was made with the Eastern Dredging Company, for dredging about 8,000 cubic yards of mud from the foot of the proposed beach. The amount dredged under this contract was 8,460 cubic yards. Besides these two contracts, considerable material was excavated by the department in the construction of the beach. The beach was surfaced with river gravel to a depth of one to two feet, using 7,519 cubic yards, at a cost of $4,465.30 or about $59\frac{1}{2}$ cents per cubic yard.

The plan of Olmsted Brothers for the construction of the new beach, contemplated a cut in the former beach and in the marsh westerly, of a variable depth from nothing at the centre line of Magazine Street, to about twelve feet in front of the Magazine Building, to about five feet at the westerly end of the beach. The construction, as carried out in accordance with the plan, forms a deep recess or cove in the former marsh and island, in which the water is comparatively quiet. The slope of the new beach is so much flatter than that of last year's beach that there is safe bathing at almost all hours of the tide. The beach is about 850 feet long and varies in slope from nine to one at the steepest part, to fifteen to one at the flattest.

The change in construction of the beach necessitated some slight changes in the former lay out of the island, but these were easily made. The change of most importance was in front of the old Magazine Building, where a cut of twelve feet required that a retaining wall and steps be built.

In June a contract was awarded for the building of two temporary wooden bath houses at the top of the beach, on the site of the proposed permanent bath house. These bath houses are rather crude affairs, each consisting of a main room 26½x12 feet, with a wing on either side, of twenty-four dressing rooms each. The size of these rooms is 4½x4 feet. In each house two of the 4½x4 feet rooms were combined, making an office where an attendant dispensed suits and towels. In the women's house six of the rooms were combined for the use of smaller girls, and one room was used for a shower bath. In the men's house two shower baths were put in.

The following schedule of prices prevailed:—

Suit, towel and locker accommodation . .	10 cents.
Suit, towel and dressing room . . .	15 cents.
Dressing room without suit	10 cents.
Extra towels, each	3 cents.

It was estimated that over sixty thousand persons availed themselves of the bathing privileges between June 18 and September 22. The largest number noted on any one day was twenty-five hundred. Very often on warm Sundays or holidays the supply of suits and locker accommodations was found to be much too small. If the number of suits, towels and locker accommodations were doubled next year it would be none too large. Considerable inconvenience was experienced in the laundering of the suits and towels, which was done by one of the local laundries. No suit or towel was used more than once, before being laundered, and as the laundering took about a day, about half the suits were out of service most of the time. The laundering this year cost $436.43. I think it would be advisable to establish a small laundering plant at the bath houses, in order to save time and expense and so that the suits and towels could be used several times in the same day.

The old Magazine Building, which was remodeled last year into a locker house, was used by the boys and accommodated thousands, but even this was too small to meet the requirements of warm days.

The buildings were open to the public from 10 o'clock A. M. to 9 o'clock P. M. on week days, and from 9 o'clock A. M. to 6 o'clock P. M. on Sundays.

The beach was lighted with three arc lights placed on poles in the water.

Seats were erected along the top of the beach at three different points.

Two attendants were employed in each of the buildings, and three life guards and a police officer were on duty on the beach. No serious casualties were reported and the beach seemed perfectly safe even for the smallest children.

The conduct of the visitors to the beach was excellent and reflected credit on the officer in charge.

Last winter an attempt was made to flood a portion of the play-field for skating purposes, but on account of the porosity of the ground and the short season of cold weather, no success was met with.

Watering, drainage and lighting systems have been established on the Captain's Island portion of the section.

Charles River Road from Magazine Street to Brookline Street has been lighted with the Welsbach Self Generating Lamps.

Trees, shrubbery and grass have been planted on Captain's Island in the spaces prepared last year.

Edgestone was set on Charles River Road at Magazine, Pearl and Brookline Streets and on the driveway loop near the beach.

SECTION F.

The only work of importance at this section was the building of a new float and two new runs for the Weld Boat House.

SECTION G.

Edgestone was set on the west side of Boylston Street, at the foot of Murray Street and at old Bath Street.

A brick sidewalk was laid from Mt. Auburn Street to Charles River Road where Bath Street formerly stood.

I would recommend that the proposed seat around the large Lowell Willow be built next spring.

SECTION H.

In December, 1899, a contract was made with the Eastern Dredging Company to furnish between 18,000 and 22,000 cubic yards of material and construct the beach from Section G to the Metropolitan Reservation west of the Cambridge Hospital. This contract was completed in May, 19,563 cubic yards of material having been delivered at a cost of $9,781.50 or fifty cents per cubic yard; 485 cubic yards of mud were dredged in laying the extension of the Lowell Street sewer at a cost of thirty cents per cubic yard.

Loam has been placed in the planting and tree spaces and, aside from the drainage and watering systems, very little more work will be required to complete the section.

The walk will need some binding material for surfacing and the loam spaces some slight grading.

SHADE TREES.

Considerably more work was done upon the shade trees this year than in former years for three reasons, viz.:—

First. More requests were received for tree work.

Second. The reports of the tree inspector showed a great deal of work needing immediate attention; and

Third. The severe wind storms of July 18 and September 12 made considerable work necessary.

The appropriations for the care of our trees have never been sufficient to allow of a systematic treatment of the trees, nor even have they been sufficient to allow of enough work to satisfy the requests of individuals, for work on the trees. This fact is, to a certain extent, responsible for the present condition of the trees. In very few cases have we been able to trim trees to aid their growth, but the trimming done has been merely to remove dead wood, or where limbs interfered with buildings or traffic, or where there was too much shade, as per requests received at the Park office.

Trees growing in city streets necessarily require a great deal more care than those growing in the forests. In the streets, the water which should be allowed to soak into the ground around the roots of the trees, is quickly carried off, by macadamized streets and paved gutters, to the sewers, so that but a very small proportion ever reaches a tree root.

The construction of our modern streets is very hurtful to trees. The grade of a street is often established years before the street is constructed. The tree roots grow to conform to the elevation of the ground in which the trees are planted. Sewer, gas and water pipes are laid, and if the roots are encountered, they are either seriously injured or destroyed entirely. Then the process of street construction begins! The road bed is, in many cases, either raised or lowered from the natural elevations, and so the tree roots are either too deeply buried or are cut. Curbing and sidewalks are laid, and rather than deviate in line or grade, tree roots, if they are in the way, must be sacrificed. Leaks from gas pipes are as great, if not a greater menace to trees than the processes of street construction.

One can see that such conditions must be very hurtful to the welfare of the trees. The injury may not be apparent in a month or a year, but it will surely be noticed sooner or later. In order to get good results

from tree planting under these conditions, extra care must be taken of the trees. When they show a lack of vigor, the cause should be ascertained, and, if possible, remedied. The trees should be pruned little or much, as the case may be, in order to force new life into the roots. Perhaps the roots need moisture or new earth, or perhaps there is a leak in a gas main in the vicinity, which would not be discovered until the ground were broken into.

The effect of one or more of these causes is noticed in the condition of the trees on Hampshire Street, near Prospect Street, on Broadway between Ware and Prescott Streets, on lower Broadway and on lower Harvard Street. In these places large elm trees have been killed and it is supposed that gas has been the destroying agent.

There are at present a great many dead trees in the streets, which have been dead for several years, and are considered dangerous. There are also many trees with dangerous dead limbs. These are being removed as rapidly as possible.

The two severe storms of July 18 and September 12 were disastrous to our trees. Many large trees were blown over and a great many large limbs were broken from trees. In these latter cases, large wounds were left in the trees, which should be treated with a tar covering at once. Maple Avenue gives the best example of such need.

Immediate steps should be taken to preserve some of our largest and best elm trees which are fast dying off, especially on Harvard Street, Broadway, Oxford Street and Massachusetts Avenue. A great deal of judicious trimming is needed to be done at once.

A great many trees planted two or three years ago need resupporting.

During the months of July and August a careful and systematic inspection was made of all of the City trees. The inspector made a list of dead trees, trees with dead wood in them, trees needing wire guards, trees on which wire guards need repairing, trees needing trimming and trees needing cleaning of caterpillars, etc.

The work indicated by the reports of the inspector should be done systematically by a gang of men who should do nothing else.

I would respectfully recommend that a force of four men, under the direction of a foreman, be put to work on a systematic treatment of the trees. This would cost $86.00 per week including cost of team.

The work done on trees this year was as follows: —

724	Trees trimmed.
810	New wire guards put on.
2,474	Wire guards repaired.
24	Trees cleaned.
1	Tree braced and bolted.

29 Heads of trees removed (work of removing not completed).

148 Trees removed (dead, dying, unsafe or by petition) as follows:—

Ulmus Americana	66
Acer saccharinum	32
Populus candicans	10
Tilia Americana	9
Fraxinus Americana	8
Æsculus hippocastanum	7
Acer dasycarpum	5
Acer rubrum	5
Ulmus campestris	2
Acer platanoides	1
Prunus avium	1
Salix alba	1
Populus alba	1
	148

254 Trees planted (including replacing of dead trees) as follows:—

Ulmus Americana	135
Acer platanoides	58
Acer saccharinum	33
Fraxinus Americana	28
	254

Thirty-three petitions for the removal of trees have been received by the Board, twenty-five of which have been granted.

PUBLIC GROUNDS.

Grass and shrubbery have been planted at the Latin School and Peabody School grounds. Edgestone and sidewalk should be set on the Ellery Street and Trowbridge Street sides of the Latin School grounds.

The grounds of the Felton and Wellington Schools have been remodeled, the expense being paid by the Public Building Department. Grass and shrubbery will be needed at these grounds next year.

The remodeling of the Public Library grounds, which was commenced in 1897, should be completed as soon as possible.

CAMBRIDGE FIELD.

Cambridge Field has been enjoyed by the usual large number of people who have participated in the many pastimes of this popular place.

The field was flooded for skating the last of December, but owing to the very short season of cold weather there were only fourteen days when the ice was in good condition. In these fourteen days it was estimated that over nineteen thousand people enjoyed the skating.

The usual attention was given to the grass and shrubbery, requiring the service of four men throughout the season.

No construction work has been done this year at Rindge Field, East Cambridge Embankment, Public Library grounds or at any of the commons and squares.

I would respectfully recommend that a suitable stable and yard be secured for the department, to concentrate and facilitate the repair work of the department. The stable should have accommodations for four horses and the accessories. There should be a large work-shop where tree guards could be made and repaired, and where general repair work could be carried on.

THE YEAR'S EXPENDITURES.

The expenses of the department for the year are shown in the following summary of the departmental accounts: —

PARK LOANS.

Amount appropriated Dec. 29, 1899		$27,581 70
Amount appropriated April 3, 1900		50,000 00
Amount appropriated July 5, 1900		50,000 00
		$127,581 70

EXPENDED.

River Parkway, Section A.			
Gravel	$564 12		
Pay roll	555 29		
Edgestone and edgestone setting	374 19		
Teaming	307 25		
Loam	189 00		
Lighting	151 41		
Use of steam roller	146 67		
Iron ladders on sea wall	112 50		
Iron fence on sea wall	102 86		
Engineering	57 88		
Tree poles	36 .36		
Wooden fence	27 50		
Repairing watering system	20 08		
		$2,645 11	
River Parkway, Section B.			
Pay Roll	$6,848 78		
Iron fence on sea wall	4,905 66		
Resetting sea wall	3,137 95		
Ballast	2,831 15		
Ashes	2,053 17		
Engineering	1,066 99		
Amounts carried forward	$20,843 70	$2,645 11	$127,581 70

Amounts brought forward	$20,843 70	$2,645 11	$127,581 70
Filling	981 27		
Edgestone and edgestone setting	950 82		
Teaming	567 45		
Lighting	281 21		
Iron ladders on sea wall	243 75		
Granolithic sidewalk	190 67		
Street crossings	116 63		
Loam	81 00		
Shrubs	64 95		
Tree poles	64 80		
Wooden fence	27 50		
Lumber	23 81		
Sample fence	11 00		
Hardware	10 74		
Stakes for engineers	9 50		
Printing and advertising	4 42		
Coal	3 00		
Sign	1 75		
Freight	1 67		
Labor on sign post	1 50		
		$24,481 14	
River Parkway, Section C.			
Witness fees in case Norcross *vs.* City	$1,075 00		
Ashes	924 30		
Filling	770 31		
Reporting case, Norcross *vs.* City	659 91		
Engineering	498 89		
Pay roll	336 59		
Copies of hearing in case Norcross *vs.* City	52 80		
Carriage hire in case Norcross *vs.* City	35 00		
Supplies for wash borings	33 99		
Lumber	30 14		
Printing and advertising	22 47		
Examination of titles, etc., in case Norcross *vs.* City	15 00		
Hardware	11 40		
Expenses of City Solicitor in case Norcross *vs.* City	10 20		
Recording documents in case Norcross *vs.* City	3 40		
Teaming	2 25		
Recording documents	1 87		
		$4,483 52	
River Parkway, Section D.			
Construction of beach	$10,675 30		
Pay roll	8,364 68		
Teaming	2,653 80		
Gravel for road	2,244 48		
Building wooden bath houses and extra work	1,947 14		
Engineering	1,502 11		
Ashes	1,100 92		
Amounts carried forward	$28,488 43	$31,609 77	$127,581 70

Amounts brought forward	$28,488 43	$31,609 77	$127,581 70
Loam	752 94		
Filling	743 80		
Remodeling old Magazine Building	616 27		
Drainage system	470 14		
Edgestone and edgestone setting	443 48		
Lighting	418 21		
Lumber	242 94		
Sods	220 50		
Lawn seats	178 86		
Watering system and repairs	177 27		
Telephone service	106 51		
Miscellaneous supplies for bath houses	103 85		
Shrubs	85 60		
Stakes for engineers	84 25		
Signs	78 90		
Architect's services	75 00		
Tools and hardware	45 08		
Shower baths	44 41		
Lawn seed	30 00		
Drinking fountain and setting same	29 85		
Rubbish barrels	21 00		
Life line	20 07		
Printing and advertising	11 53		
Blacksmithing	7 95		
Coal	5 88		
Stove pipe	5 05		
Black prints and blue prints			
Expert services of life guard	3 00		
Freight	2 04		
Recording documents	1 65		
Setting level bolts	1 25		
Barrel for drain	20		
		$33,519 03	
River Parkway, Section F.			
New float for boat house	$365 00		
New runs for boat house	226 12		
Lighting	63 80		
Repairing watering system	39 73		
Engineering	14 50		
Seats	12 60		
Water rent	6 00		
Pay roll	3 00		
Lumber	2 53		
Recording documents	2 50		
Signs	1 75		
		$737 53	
River Parkway, Section G.			
Pay roll	$380 65		
Lighting	337 13		
Brick sidewalk at Bath Street	179 82		
Edgestone and edgestone setting	121 92		
Engineering	118 14		
Gravel	13 00		
Oil	55		
		$1,151 21	
Amounts carried forward		$67,017 54	$127,581 70

Amounts brought forward		$67,017 54	$127,581 70
River Parkway, Section H.			
Construction of beach	$9,781 50		
Loam	682 77		
Pay roll	485 96		
Engineering	246 09		
Drainage system	181 23		
Stakes for engineers	15 42		
Teaming	14 25		
Printing and advertising	8 12		
Hardware	6 10		
Recording documents	2 95		
Freight	2 10		
		$11,426 49	
Nursery.			
Pay roll	$925 67		
Trees	75 00		
Coal	5 50		
Lumber	68		
Express	50		
		$1,007 35	
East Cambridge Embankment.			
Analysis of sea water	$65 00		
Engineering	6 25		
Filling	5 20		
Iron chain and lock	4 22		
Pay roll	2 00		
		$82 67	
Rindge Field.			
Lighting	$50 00		
Engineering	11 62		
Lumber	4 88		
Pay roll	2 00		
		$68 50	
Washington Elm.			
Setting edgestone	$27 00		
		$27 00	
General Account.			
General Superintendent's salary	$1,883 31		
Landscape Architect's fees	673 56		
Board of horses, carriage hire, etc.,	520 09		
Car tickets for engineers	225 00		
Tools and hardware	122 38		
Rent of store room	120 00		
Car tickets for office	75 00		
Garden hose	71 25		
Printing and binding reports of 1899	64 06		
Rubber goods and repairs	59 52		
New carriage top and repairs	52 85		
Heliotype cuts for report of 1899	45 00		
New harness	38 00		
Grass seed	35 00		
Entertaining Park Committee of City Council	34 05		
Amounts carried forward	$4,018 98	$79,629 55	$127,581 70

Amounts brought forward	$4,018 98	$79,629 55	$127,581 70
Shoeing horse	33 25		
Bicycle repairs	18 75		
Engineering	15 00		
Watering cart attachments and repairs	13 35		
Anchors	11 18		
Carpentering	9 65		
Express	9 15		
Signs	7 00		
Tools and repairs for engineers	6 75		
Blacksmithing	5 52		
Printing and advertising	4 76		
Glass jars	1 00		
Lumber	1 00		
Pay roll	1 00		
Cotton cloth	56		
Key	30		
Telegram	26		
		$4,157 46	
Office Expenses.			
Pay roll	$646 00		
Telephone service	165 99		
Printing and advertising	92 25		
Stamps and stamped envelopes	62 66		
Typewriter, supplies and repairs	61 60		
Stationery	43 56		
Engineering	38 25		
Atlas	35 00		
"Journal," "Ledger" and "Tree Order" books	21 00		
Tree books and cyclopaedias	20 00		
Ink stand	7 00		
Miscellaneous supplies	5 05		
Directory	3 00		
Express	15		
		$1,201 51	
Total			$84,988 52
Balance unexpended			$42,593 18

PARK MAINTENANCE.

Amount appropriated April 3, 1900	$20,000 00
Revenue from bath houses	1,469 07
	$21,469 07

EXPENDED.

Shade Trees.		
Pay roll	$4,131 10	
Wire and wire netting	173 59	
Teaming	127 87	
Loam	109 47	
Tools and hardware	48 36	
Engineering	34 99	
Blacksmithing	29 41	
Amounts carried forward	$4,654 79	$21,469 07

Amounts brought forward	$4,654 79		$21,469 07
Sharpening saws	20 25		
Repairing damage done by trees	17 15		
Hose for trees	3 12		
Printing and advertising	77		
Express	30		
		$4,696 38	
River Parkway, Section G.			
Pay roll	$2,546 13		
Lighting	641 86		
Teaming	16 00		
Tools	2 15		
		$3,206 14	
Cambridge Field.			
Pay roll	$2,439 02		
Lighting	591 65		
Work on flag staff	56 24		
Garden hose	28 50		
Teaming	20 73		
Repairing drinking fountain	13 60		
Blade for ice plane	12 00		
Tools and hardware	11 58		
Miscellaneous repairs	5 00		
Signs	3 50		
Water Department for flooding field	3 00		
Repairing flags	2 50		
Lumber	1 06		
Express	1 00		
		$3,189 38	
Bath Houses, Section D.			
Pay roll	$1,499 25		
Bathing suits	746 44		
Laundering suits and towels	436 43		
Towels	94 60		
Telephone service	9 30		
Miscellaneous supplies and repairs	9 22		
Tools and hardware	8 79		
Printing	6 50		
Blankets	4 50		
Oars	2 07		
Express	65		
		$2,817 75	
The Shelter.			
Pay roll	$2,192 00		
Coal	97 75		
Lighting	66 01		
Telephone service	51 67		
Toilet paper	26 00		
New cable for lighting system	16 77		
Laundering towels	16 75		
Plumbing	13 85		
New glass in door	12 00		
Repairing drain	8 90		
Tools and hardware	8 72		
Amounts carried forward	$2,510 42	$13,909 65	$21,469 07

Amounts brought forward	$2,510 42	$13,909 65	$21,469 07
Carpentering	6 97		
Trousers for janitor	5 00		
Miscellaneous supplies and repairs	1 60		
Express	40		
		$2,524 39	
Commons and Squares.			
Pay roll	$1,951 08		
Lighting	270 00		
Teaming	100 85		
Herbaceous plants	85 00		
Painting flag staffs	46 00		
Repairing flags	18 00		
Hardware	6 40		
Lumber for walks	3 19		
Engineering	2 63		
Printing and advertising	51		
Express	35		
		$2,484 01	
Public Grounds.			
Pay roll	$1,595 33		
Shrubs	256 20		
Sods	129 81		
Teaming	64 50		
Watering system	24 58		
Lumber for walks	19 26		
Engineering	7 87		
Loam	5 34		
		$2,102 89	
General Account.			
Bicycle and bicycle repairs	$74 95		
Board of horse	65 00		
Lawn mowers and repairs	40 87		
Tools and hardware	38 34		
Cleaning ice at Artificial Pond	25 00		
Garden hose	24 00		
Repairing wagon	13 40		
Shoeing horse	11 90		
Park "Rules and Regulations"	6 00		
Express	2 48		
Repairing harness	1 60		
Police belt	1 35		
		$304 89	
Rindge Field.			
Lighting	$133 36		
Setting lamp posts	8 34		
		$141 70	
Total			$21,467 53
Balance unexpended			$1 54

Respectfully submitted,

H. E. WHITING,
General Superintendent of Parks.

REPORT OF THE LANDSCAPE ARCHITECTS

Brookline, Mass., December 20, 1900.

Mr. George Howland Cox, Chairman Cambridge Park Commission, City Hall, Cambridge, Mass. : —

Dear Sir : — We have to report that during the current year we have advised your Board upon fewer matters of design, in connection with the improvement of the Park System of Cambridge, than heretofore. During the first half of the year we prepared sixteen diagrams, sketches, tracings, etc., mainly relating to the improvement of the Captain's Island playground section of the Charles River Drive.

The most important of these was a study for a much larger bath house than the two separate bath houses shown on the plan published in last year's report. At that time the idea prevailed that the provisions for bathing at Captain's Island should be considered as purely experimental and that in order to justify the expense of permanent houses, suitable for the use of bathers, it was desirable that the dressing rooms and toilet accommodations should also be used in connection with the men's and women's playgrounds and in winter for the skaters when these grounds are flooded and covered with ice.

But the existing arrangements for bathing, even with the disadvantages of cramped temporary quarters for men and boys in the old stone Magazine and mere sheds for women and girls, and with a comparatively steep and limited beach proved to be so popular that the Commission instructed us to prepare preliminary plans for a large bath house at a point north of the old Magazine where there would be room to grade a longer and broader beach.

In our preliminary design for this bath house we adopted the general arrangement which we had recommended to the Metropolitan Park Commission for the Revere Beach bath house, but on a smaller scale and simplified by omitting the upper story of dressing rooms and all provision for a laundry, on the assumption that the bathing clothes could be washed and dried elsewhere by a contractor.

The plan comprised a large hall in which would be the desk for the delivery of bathing clothes, towels, etc., and for the safe keeping of

valuables. Suitable toilet conveniences were to be provided in connection with this hall for the use of both bathers and visitors to the two playgrounds. It was planned to have the dressing rooms of comparatively cheap construction in yards surrounded by high fences, one yard being for women and girls and the other for men and boys. It was proposed to have the main building comparatively high studded with brick walls and an imposing hipped roof covered with red tiles. It was thought that the expense of such a construction would not be exorbitant if a cheap but strong quality of brick were used, which would be covered with pebble-dash except where a nicer quality of brick would be used as a trimming at the corners and around doors and windows. As a measure of economy and especially to avoid the expense of pile foundations, it was proposed, instead of using brick walls for enclosing the bath house yards, to have occasional piers of brick connected by wooden fencing covered with wire lathing and pebble-dash. It was designed to have the ends and the whole of the landward front of the group more or less covered with vines and partially masked by bushes and trees.

To give this building a proportionately dignified setting it was planned to have a formal arrangement of depressed turf panels, between the building and the Charles River Drive, which could be used as playgrounds for little children. Communication from the drive to the building and along the front of the building was to be provided for by wide gravel walks with rows of shade trees.

Our sketch for this bathing establishment was not intended as an architectural design, but as an illustration of our recommendation for the consideration of the Board and for the guidance of their architect.

In connection with this proposed bathing establishment at Captain's Island we prepared a complete grading plan, in accordance with which work has been proceeding during the summer.

Another plan, which we prepared early in the year, was a planting plan for the ground about the old Magazine which had been graded last year in accordance with our plans.

We submitted a design for a simple iron railing on the sea wall of the Esplanade, with occasional small lamp posts for glass globes to contain incandescent electric lights.

We have also conferred with members of the Board as to the execution of our grading plan prepared last year for the extension of the river bank improvement across the river front of the Cambridge Hospital grounds westward from Mt. Auburn Street. This plan provides for a broad tree-shaded promenade only, but it is so devised that whenever the Metropolitan Park Commission constructs, upon the land which it has already acquired, a drive in extension of the recently constructed Fresh

Pond Parkway from where it now ends at the corner of Mt. Auburn Street and Elmwood Street to the river at Gerry's Landing and builds a bridge across the river to the speedway, it will be possible for your Commission to construct a drive in place of the present promenade without sacrifice of trees, and to secure a new promenade by filling further out into the river.

Yours respectfully,

OLMSTED BROTHERS.

REPORT OF THE CITY ENGINEER

OFFICE OF CITY ENGINEER, CITY HALL,
CAMBRIDGE, December 1, 1900.

Geo. H. Cox, Esq., President Park Commission:

The work of the Engineering Department in Park Construction the past year has been of a somewhat miscellaneous character. In addition to the usual time devoted to setting out work, lines, grades, and the preparation of studies and detail plans, the following statement of the work of the year is made:—

At the Esplanade, Sections A and B, 1.418.88 lineal feet of edge-stone have been placed mostly at street corners and intersections.

The sea wall having become in places badly out of line and grade, it was decided to relay some of the worst portions to the bottom, and retop the major part of the balance, preparatory to the placing of a suitable iron railing.

This work was done by Mr. T. A. Rowe, he furnishing sloop and crew at a per diem rate. In this way, as much or as little of the wall could be relaid as was found necessary as the work proceeded. East of Harvard Bridge, about 1,555 feet of wall was retopped and the coping reset. West of Harvard Bridge, about 1,308 feet of wall was treated in the same manner, and, in addition, about 350 feet of sea wall was substantially rebuilt. The total amount paid Mr. Rowe for labor, etc., was $2,792.97. In addition, $344.98 was paid for cement and incidentals, making the total cost $3,137.95. At the same time, the wall was back ballasted with chip stone, 2,097.15 cubic yards of stone being furnished by J. C. Coleman, at a cost of $2,831.15. On the completion of this work, contracts were made for erecting the iron railings, the Chelmsford Iron Foundry Company furnishing and erecting 1,136.15 feet of railing at a cost of $1,638.65, and A. B. Robbins furnishing and erecting 2,609.33 feet at a cost of $3,410.17; 1,949.33 feet of this railing is on the easterly side of Harvard Bridge, and 1,796.15 feet on the westerly side of Harvard Bridge. In this connection also, nineteen life ladders were placed at various points on the wall of the Esplanade.

Plans and estimates have been prepared for the proposed extension of the Esplanade, by filling and grading, from the present terminus opposite the end of Erie Street, westerly, to Brookline Street.

On Section D, including the Captain's Island beach, 451.63 feet of edgestone have been set in the improvement of grounds and roadways, and a special sewerage system extended to the bath house. Two hundred and fifty-three feet of ten inch pipe and 137 feet of eight inch pipe was laid for this purpose, connecting with the sewer in Magazine Street, and also 311 feet of eight inch pipe, 271 feet of six inch pipe and 105 feet of wooden box outlet built to provide for the surface drainage discharging into Charles River. Four catch basins and one manhole were built in connection with this drain. It became necessary, also, to build about 420 feet of wooden box drain 8x8 inches as an under-drain to the playfield owing to one of the drainage ditches being filled up.

Magazine Street from Granite Street to the Parkway and the Park Road from Magazine Street to Brookline Street were surfaced and graded, a total length of 1490 feet.

The bathing beach has been partly regraded and the whole length, about 850 feet, has been surfaced with gravel so that now a fine, safe beach is secured.

Nineteen thousand, two hundred and sixty cubic yards of mud were removed under contracts with W. B. Mullen and the Eastern Dredging Company at a total cost of $6,210.00. In preparing the beach 7,519 cubic yards of gravel were placed by the Eastern Dredging Company at a cost of $4,465.30. At Section G, 128.8 feet of edgestone have been set.

At Section H, the Lowell Street sewer outlet has been extended 71.5 feet to correspond with the construction of the beach; one-half the cost being paid by the Sewer Department. Four hundred and eighty-five cubic yards of mud were excavated from the trench under the sewer and refilled with gravel at the time of the construction of the beach. Nineteen thousand, five hundred and sixty-three cubic yards of gravel were furnished and placed by the Eastern Dredging Company on this beach at a cost of $9,781.50. One-half the cost of dredging for the sewer extension was $72.75, making a total cost of $9,854.25; the completed beach is about 485 feet in length. Four assistants have been employed on Park work, two the entire year.

Respectfully submitted,

L. M. HASTINGS,
City Engineer.

REPORT OF THE CITY ENGINEER

OFFICE OF THE CITY ENGINEER,
CAMBRIDGE, December 1, 1900.

To the Honorable, the City Council: —

The undersigned herewith submits the thirty-fourth annual report of the City Engineer, showing the operation and expenditures of the departments of Engineering and Sewers for the year ending December 1, 1900.

OFFICE.

Nine assistants have been employed in the department during the year at various times, beside the clerk, and four assistants employed on work connected with the Park Department.

The yearly summary of work done is as follows: —

FOR STREET DEPARTMENT.

Number of surveys	40
Number of street lines given	146
Number of street grades given	127
Number of streets on which paving, cnrb, etc., was measured	82
Number of assessments prepared	384
Number of plans or profiles prepared	65

FOR SEWER DEPARTMENT.

Number of surveys	0
Number of lines given	72
Number of grades given	448
Number of sewers measured	41
Number of sewers assessed	13
Number of sewer assessments prepared	94
Number of plans or profiles prepared	31

FOR WATER WORKS.

Number of surveys	12
Number of lines given	5
Number of grades given	14
Number of plans or profiles made	8

FOR PARK DEPARTMENT.

Number of surveys made	58
Number of grades given	315
Number of stone bounds set	0
Number of plans or profiles made	9

FOR PRIVATE PARTIES.

Number of street lines given	52
Number of street grades given	10

MISCELLANEOUS WORK.

Number of surveys at cemetery	1
Number of surveys or levels made	114
Number of houses measured	370
Number of plans or profiles prepared	88

There are now on file in the office, including plans received from J. G. Chase, 6,979 plans.

In July of this year Mr. J. G. Chase, formerly City Engineer of Cambridge, presented and delivered to this department a large collection of maps, plans and records, acquired by him during the years of his practice. The collection included some 1,080 plots and plans, some of them quite ancient and valuable, besides old documents and records which will undoubtedly prove of great value in the future for reference.

FINANCIAL.

Appropriation	$11,000 00	
Expended	10,909 61	
Balance unexpended		$90 39
Assessors plans	$300 00	
Expended	278 18	
Balance unexpended		$21 82

ABOLITION OF GRADE CROSSINGS.

In June, 1899, an order was passed requesting the City Engineer to "submit estimates showing the approximate cost of abolishing all grade crossings in this City." As no appropriation has been granted for the purpose of carrying on this investigation, it has been possible to work on the matter only when other and more pressing matters did not prevent. For this reason progress has been slow. The studies and estimates are now well advanced however, and it is hoped that at an early day a report will be submitted.

STREETS.

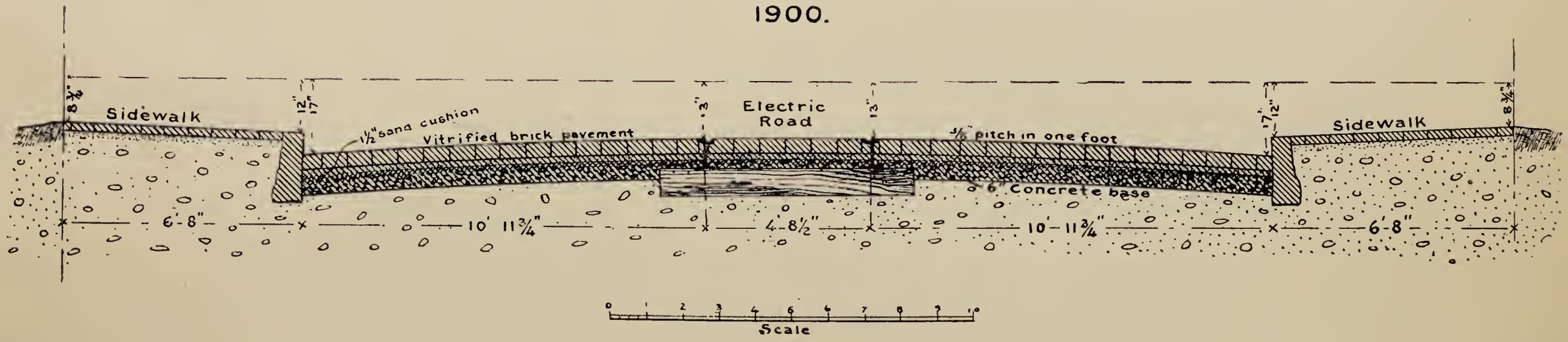
The following streets have had action taken on them as shown by the statement annexed: —

PEARL STREET IMPROVEMENT

Cross section

VITRIFIED BRICK PAVEMENT

1900.



STREETS LAID OUT AND ACCEPTED DECEMBER 1, 1899, TO DECEMBER 1, 1900.

LOCATION OF STREET.						PLAN.	
Name.	From	To	Length in Feet.	Width in Feet.	Date of Acceptance.	Made by	Date.
Amherst Street	Massachusetts Avenue.	Robinson Street	1,090	60	Nov. 15, 1900	Aspinwall & Lincoln	Oct. 29, 1900
Andrew Street	Fairmount Street	Somerset Street	431	30	Dec 29, 1899	George A. Merrill	May 10, 1897
Berkshire Street	York Street	Bristol Street	467	40	Sept. 28, 1900	City Engineer	June 1, 1900
Binney Street	First Street	Third Street	1,085	50	Sept. 28, "	W. A. Mason & Son	May 31, 1900
Bristol Street	Market Street	Hampshire Street	268	30	June 15, "	W. A. Mason & Son	June, 1878
Commercial Auenue	First Street	Binney Street	596	60	Sept. 28, "	W. A. Mason & Son	May 31, 1899
Eustis Street	Oxford Street	Somerville Line	655	40	June 22, "	W. A. Mason & Son	Aug. 31, 1899
Garden Street	Waterhouse Street	Northerly about 187 feet	Widening	...	Nov. 16, "	City Engineer	Sept. 25, 1900
Granite Street	Magazine Street	Pearl Street	479	40	Dec. 29, 1899	City Engineer	Sept. 19, 1899
Granite Street	Pearl Street	Brookline Street	498	40	Sept. 28, 1900	City Engineer	Sept. 19, 1899
Hamlin Street	York Street	Plymouth Street	208	40	Sept 28, "	City Engineer	June 1, 1900
Hardwick Street	Berkshire Street	Portland Street	300	40	Sept. 28, "	City Engineer	May 16, 1900
Inman Court	Inman Street	Jones Alley	184	35	May 18, "	City Engineer	Oct. 31, 1899
Lincoln Street	Webster Avenue	Willow Street	170	40	Sept. 28, "	City Engineer	May 16, 1900
Massachusetts Avenue	Mt. Vernon Street	Upland Road, west line straightened	....	....	May 4, "	City Engineer	Feb. 2, 1900
Mt. Auburn Street	Near Fitchburg Railroad Bridge	Widened both sides	....	....	Sept. 28, "	City Engineer	April, 1900
Pleasant Street	Present southerly end.	Charles River Road	400	40	July 12, "	City Engineer	Feb. 10, 1900
Porter Road	Massachusetts Avenue.	Massachusetts Avenue.	841	40	June 8, "	W. A. Mason & Son	June 15, 1897
Second Street	Near Bent Street	Binney Street	428	50	Dec. 29, 1899	W. A. Mason & Son	March 27, 1899
Sidney Street	Pacific Street	Chestnut Street	1,963	40	June 28, 1900	City Engineer	April 17, 1900
Traymore Street	Eustis Street	Harris Street	255	30	July 12, "	W. A. Mason & Son	June 26, 1900
Waverly Street	Erie Street	Allston Street	460	40	June 14, "	City Engineer	April 4, 1900
West Street	Inman Street	Lee Street	585	37	Nov. 16, "	William E. Stark	June 26, 1897

Total length of accepted streets, December 1, 1899, 90.693 miles.
Total length of streets accepted from December 1, 1899, to December 1, 1900, 11,363 feet or 2.152 miles.
Total length of accepted streets, December 1, 1900, 92.845 miles.

BRICK PAVING.

The brick pavements on Prospect Street and Harvard Square continue to give good satisfaction. A noticeable feature of the pavement on Prospect Street is the marked decrease in the noise or "rumble" so apparent in places when it was first put down. This is probably due to the brick and concrete base becoming settled firmly onto the supporting earth, where at first a slight settlement may have taken place.

Pearl Street from Massachusetts Avenue to Putnam Avenue has been paved by the Street Department with bricks called "Metropolitan blocks," manufactured in Canton, Ohio. These bricks seemed of an exceptionally good quality, and the pavement presents a fine appearance. Some views of the work taken during its progress are shown on the opposite page.

BRIDGES.

An inspection of the two wooden bridges at Third and Sixth Streets shows that the usual amount of repairs and renewals will be needed the coming year.

The iron bridge at Walden Street is again being corroded by the action of smoke and gas from the engines of the Fitchburg Railroad, and the lead protection has been worn out. The lead covering should be renewed and the iron work thoroughly cleaned and painted. The bridge at Huron Avenue also needs painting.

SEWERS.

9,295.4 feet or 1.760 miles of sewers have been built by the City during the year, making the total mileage in the City 110.087 miles. The total cost of construction to date is $1,362,007.54.

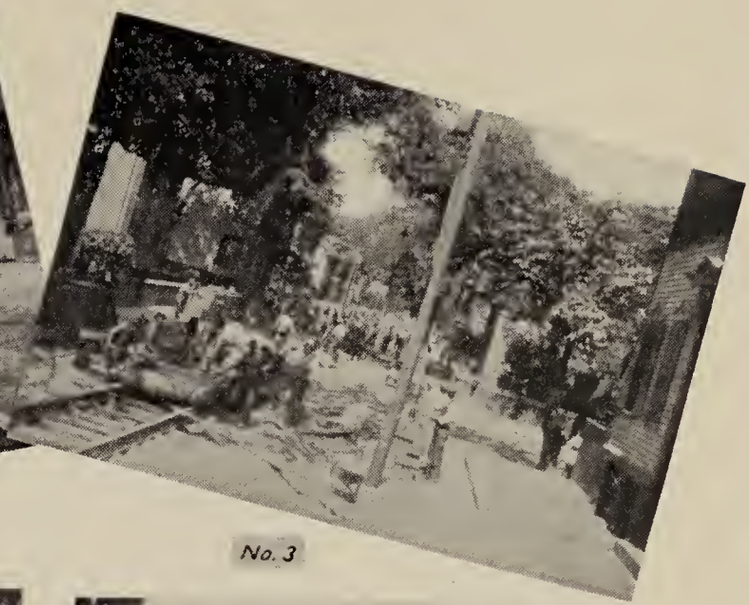
All the sewers have been built by day labor by the Superintendent of Sewers, under the general direction of the City Engineer.

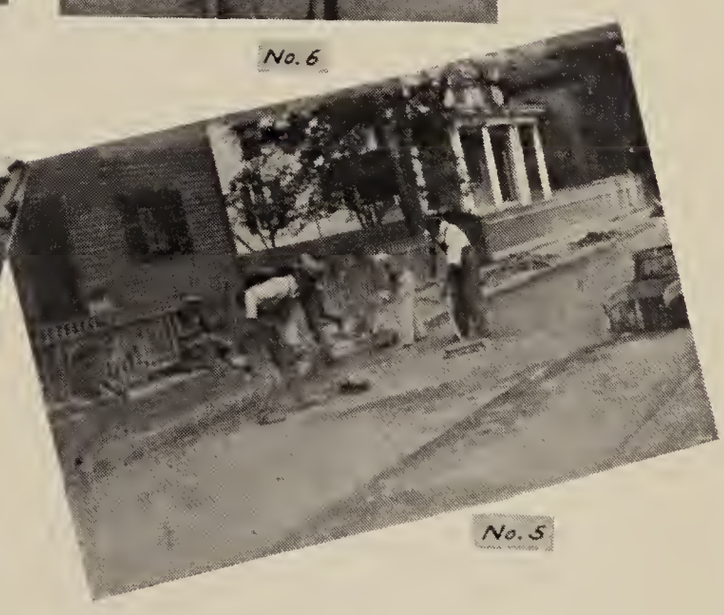
Thirty-two new catch basins have been built at a cost of $1,996.24; forty-four catch basins have been repaired. Seven thousand, three hundred and ninety-five loads of material were removed from 2,509 catch basins at a cost of $6,347.25 for this year. In this connection four new sanitary carts of improved pattern have been purchased to be used in cleaning out the catch basins.

METROPOLITAN SEWER.

The State tax for the year 1900, assessed to Cambridge on account of the Metropolitan Sewer, is as follows: —

Sinking fund requirements	$12,148 44
Interest account	39,523 98
Maintenance and operation	21,346 50
Total tax	$73,018 92





BRICK PAVING PEARL STREET.

No. 1. At Hamilton Street before commencing work.
No. 2. Sub-grading.
No. 3. Placing concrete base.
No. 4. Placing brick paving.
No. 5. Grouting joints with Portland cement.
No. 6. At Hamilton Street after completion of work.

The automatic registers have been continued in operation during the year; one on the regulator at the junction of Portland Street and Binney Street, and one on the regulator at Massachusetts Avenue at Alewife Brook, and one at the Binney Street tide-gate, and one at the Bath Street tide-gate.

A statement of the operation of these fixtures for 1899 and 1900 follows: —

STATEMENT SHOWING RESULTS OF SELF-RECORDING APPARATUS AT METROPOLITAN SEWER CONNECTIONS.

	Binney Street Regulator		Massachusetts Ave. Regulator.		Binney Street Tide Gate.		Bath Street Tide Gate.	
Year.	Number of hours shut.	Per cent. of total time.	Number of hours shut.	Per cent. of total time.	Number of hours open.	Per cent. of total time.	Number of hours open.	Per cent. of total time.
To Dec. 1, 1899	606h. 45m.	7.93	.....	.....	248h. 0m.	2.83	569h. 0m.	6.50
1900	655h. 15m.	7.48	387h. 8m.	4.42	291h. 10m.	3.32	315h. 25m.	3.60

The cost of care and maintenance of regulators and tide-gates in this City has been $1,698.02.

A detailed statement of the cost of sewers constructed during the year is appended:—

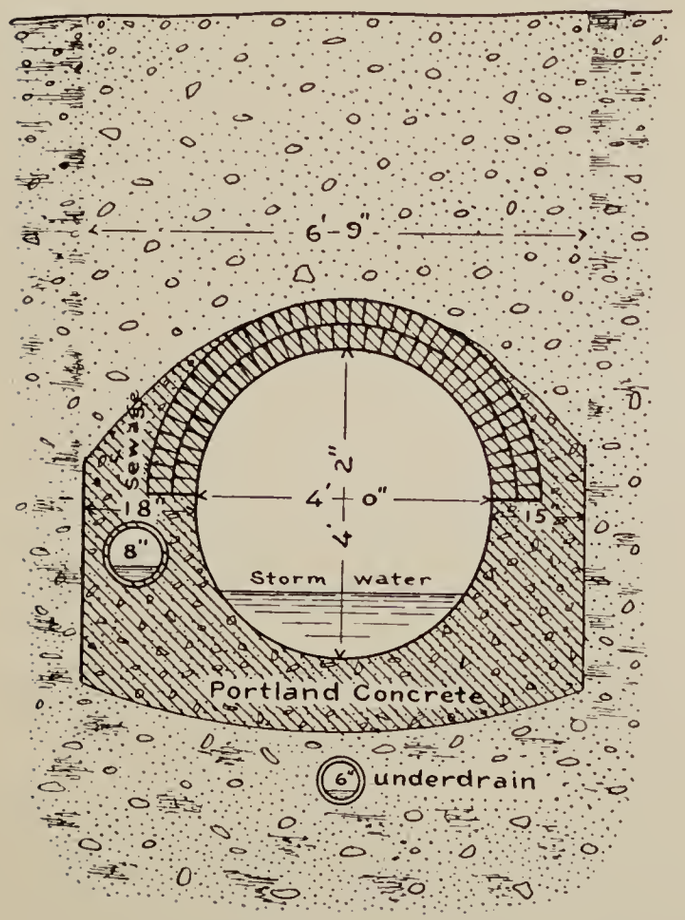
SEWERS CONSTRUCTED BETWEEN DECEMBER 1, 1899, AND DECEMBER 1, 1900.

Location.			Construction.							Total Cost.
Street.	From.	To.	Material.	Size in inches.	Av. depth of Cut.	Man-holes.	Lamp-holes.	Inlets.	Length in feet.	
Brattle	Fresh Pond Lane.	Easterly	Brick and concrete	20x22 / 18x20	14.7	1	1	6	220.0	$1,041 63
Clifton	End of old sewer.	Harvey St	Akron pipe	12	3.3	1	..	12	210.2	302 68
Eustis	Beacon St. (Somerville)	South-westerly	"	12	7.4	1	..	9	196.5	243 20
Green	End of old sewer.	Wester y to Pearl St	"	10	7.0	..	1	5	93.1	83 85
Groveland	End of old sewer.	Northerly	"	12	10.2	..	1	2	45.0	46 64
Harris Court	Eustis St	North-westerly	"	12	5.6	..	1	5	132.5	.....†
Huron Ave	End of old sewer.	W'ly near Lake View Ave	"	10	8.1	..	..	2	29.7	36 45
Harvey	Clifton St	Northerly and southerly	"	10	4.3	..	2	31	408.8	248 25
Jordan Place	End of old sewer.	Westerly	"	10	5.6	..	1	20	249.4	137 86
Lowell St. (outlet)	End of old sewer.	Southerly	Wood	..	...	..	..	..	71.5	631 48*
Lowland Ave	Charles St	Vine St	Akron pipe	10	9.2	..	1	8	154.1	117 18
Magazine	Granite St	Southerly	Iron and Akron pipe	10 and 8	7.8	2	..	..	290.0	1,284 23§
Massachusetts Ave.	Vassar St	Charles River Road	Akr'n and Portl'd pipe	65	12.2	7	5	..	1,116.6	7,544 66**
Pearl	Green St	Northerly	Akron pipe	8	7.3	..	1	..	40.3	46 63
Sixth	Otis St	Thorndike St	"	10	7.0	1	1	9	165.4	206 74
Springfield	Cambridge St	Northerly	Portland pipe	8	10.9	1	..	14	264.9	655 70‡
Winter St. Place	Winter St	Northerly	Akron pipe	8	6.4	..	1	12	187.7	102 70
						14	16	135	3,875.7	$12,729 88
			Deduct cost of Lowell Street outlet and Magazine Street sewers paid for by Park Department							1,599 97
										$11,129 91

† Cost included in Eustis Street sewer.
* One-half cost paid by Park Department and one-half by Sewers Maintenance.
§ 255 feet on pile foundation; cost of sewer paid by Park Department.
‡ Includes cost of 8-inch sanitary sewer and 10-inch storm drain.
** Includes cost of sewer on each side of street.

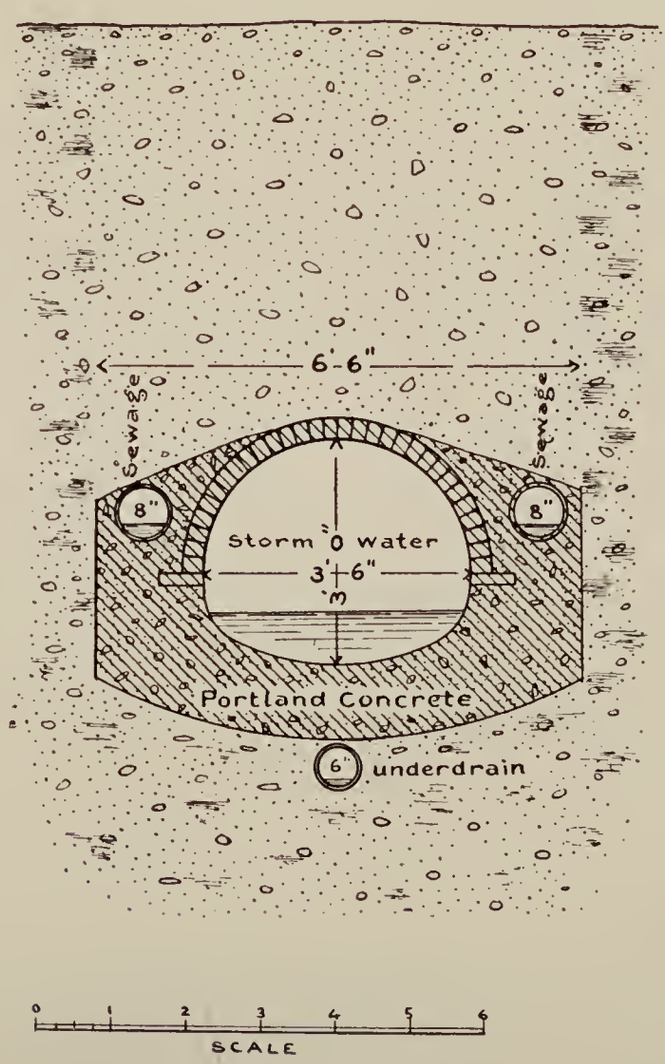
CROSS SECTION OF SEWER IN

BROOKLINE ST. NEAR GREEN ST.



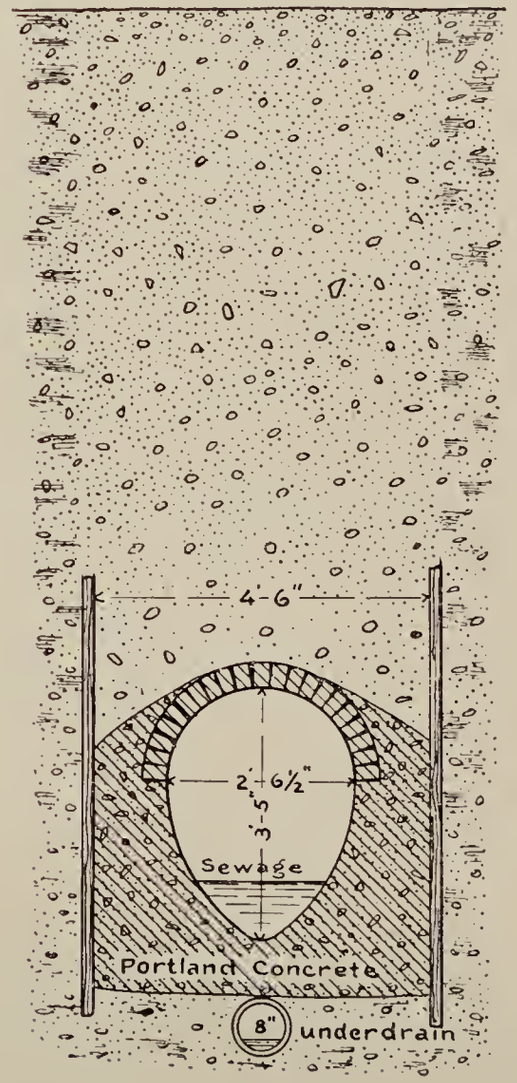
CROSS SECTION OF SEWER IN

DOUGLASS ST.



CROSS SECTION OF SEWER IN

MASS. AVE. AT BROOKFORD ST.



SEWERS RECONSTRUCTED BETWEEN DECEMBER 1, 1899, AND DECEMBER 1, 1900.

Location.			Construction.							Total Cost.
Street.	From.	To.	Material.	Size in inches.	Av. depth of Cut.	Man-holes.	Lamp-holes.	Inlets.	Length in feet.	
Granite	Magazine St.	Easterly	Brick and Akron pipe.	15 and 12	9.7	..	..	15	214.2	$1,085 46*
Magazine	Granite St.	Northerly	Brick and Akron pipe.	15	8.7	..	..	5	91.8	.....
								20	306.0	$1,085 46

* Includes cost of Magazine Street Sewer.

IMPROVED SEWERAGE CONSTRUCTION.

Storm Sewers Constructed Between October 1, 1898. and December 1, 1900.

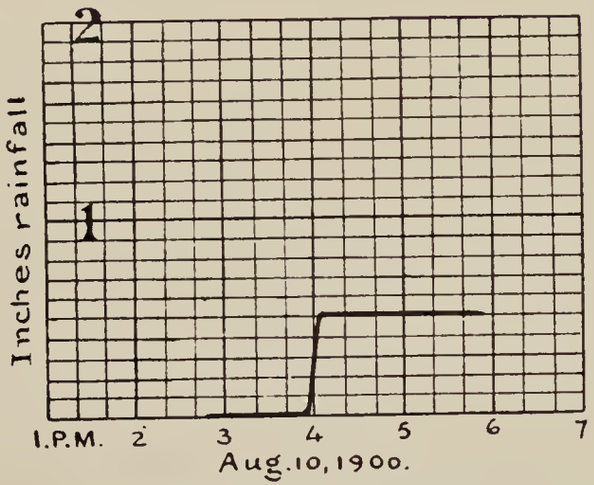
Location.			Construction.					
Street.	From.	To.	Material.	Size in inches.	Av. depth of Cut.	Man-holes.	Inlets.	Length in feet.
Albany	Massachusetts Ave	Near Pacific	Concrete and brick, Akron pipe	30 x 36 25 x 29 24 x 26 18 x 20 15, 12 and 10	7.0	4	72	1,021.4
Brookline	Pacific St.	Massachusetts Ave.	Concrete and brick	48 x 64 48 x 50	9.7	5	72	1,201.0
Douglas	Austin St.	South line Mass. Ave.	" " "	48 x 50 36 x 42	9.4	4	18	421.3
Greenhalge	Charles River	Vassar St.	Wood, concrete and brick	30 x 48 40 x 44 36 x 41	9.7	3	55	1,231.9
Massachusetts Ave.	Albany St.	Vassar St.	" " "	30 x 36	10.3	2	4	334.8
Pacific	N-w'ly location line B & A. Br. R. R.	Brookline St	" " "	64 x 69 60 x 66 54 x 64	10.5	7	102	1,524.8
Robinson	Charles River	Wellesley St.	" " "	68 x 72	13.8	3	41	1,092.4
Sidney	Pacific St.	Pilgrim St.	" " "	36 x 38	9.5	1	18	253.3
Vassar	Greenhalge St.	Massachusetts Ave.	" " "	36 x 41 33 x 38	10.3	1	30	477.8
Wellesley St. and private lands.	Robinson St.	N-w'ly location line B. & A. Br. R. R.	" " "	68 x 72 64 x 69	8.5	1	20	458.7
						31	432	8,017.4

IMPROVED SEWERAGE CONSTRUCTION.

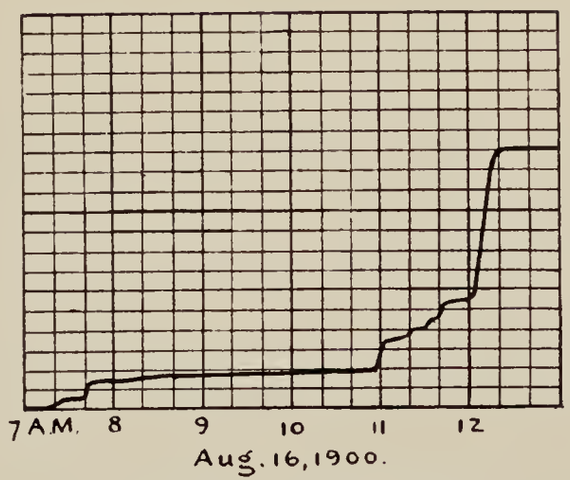
Sanitary Sewers Constructed Between October 1, 1898, and December 1, 1900.

Location.			Construction.							
Street.	From.	To.	Material.	Size in inches.	Av. depth of Cut.	Man-holes.	Lamp-holes.	Inlets.	Length in feet.	Length of Streets Newly Sewered.
Albany	Massachusetts Ave	Near Pacific St.	Akron pipe	10 and 8	9.2	4	..	66	1,024.9	.....
Auburn	Sidney St	Brookline St	Portl'd and Akr'n pipe	8	8.4	2	..	38	543.1	.....
Brookline	Pacific St	Massachusetts Ave	Portl'd and Akr'n pipe	12, 10 and 8	10.1	6	1	81	1,680.7	94.0
Douglass	Austin St	Massachusetts Ave	Akron pipe	8	6.8	2	..	20	523.2	237.1
Franklin	Sidney St	Brookline St	Portland pipe	8	7.4	2	..	39	537.2	27.0
Green	Sidney St	Brookline St	Portland pipe	8	6.5	2	..	42	582.1	.....
Greenhalge	Charles River	Vassar St	.....	..	...	..	..	..	.....	1,248.9
Massachusetts Ave.	Sidney St	Layfayette Sq.	Portland pipe	12	9.1	1	..	14	316.8	.....
Massachusetts Ave.	Albany St	Vassar St	Portland pipe	15	13.3	2	..	8	334.8	.....
Pacific	N.w'ly location line B. & A. Br. R. R.	Brookline St	Concrete and brick, Portland pipe.	20 x 22, 18 and 15	13.4	6	..	93	1,543.3	1,543.3
Pilgrim	Sidney St	Brookline St	Port and pipe	8	9.8	2	..	36	476.4	.....
Robinson	Charles River	Wellesley St	" "	12, 10 and 8	13.0	7	..	30	1,354.2	1,081.0
Sidney	Pacific St	Massachusetts Ave	" "	15, 12, 10 and 8	9.2	9	..	80	1,875.4	253.3
Springfield	Cambridge St	Northerly	" "	8	10.9	1	..	14	226.2	.....
Vassar	Greenhalge St	Massachusetts Ave	Akron pipe	8	13.5	1	..	20	452.7	452.7
Wellesley St. and private lands.	Robinson St	N.w'ly location line B. & A. Br. R. R.	Portland pipe	15 and 12	11.6	2	..	14	478.0	482.4
						49	1	595	11,949.0	5,419.7

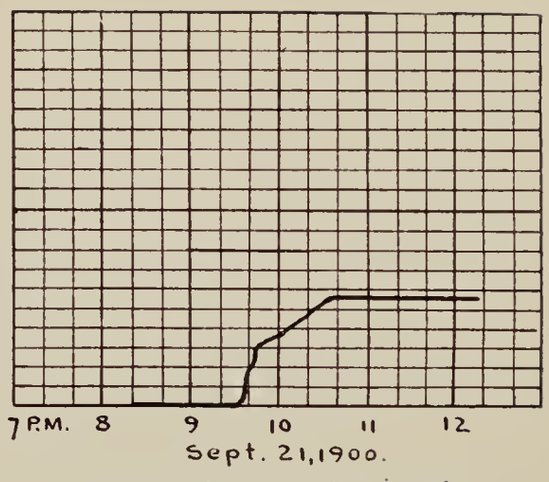
Copy from register of City Hall Rain Gage
Showing high rates of rainfall.



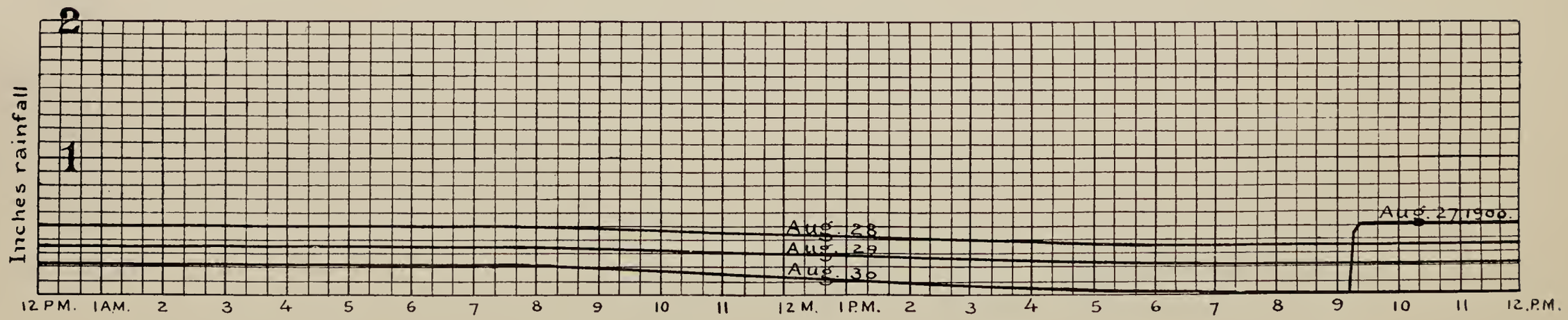
.50 inches in 5 minutes or
6 inches per hour.



.75 inches in 16 minutes
or 2.81 inches per hour



.30 inches in 10 minutes
or 1.80 inches per hour.



This diagram shows clearly the sharp rainfall of August 27, 1900. 9-15 P.M. gives ½" rainfall in 8 minutes.
As the receiver was not emptied, the inclined lines show the evaporation of the succeeding days to August 30, 1900.

IMPROVED SEWERAGE.

The sewers in Robinson and Pacific Streets, reported as being constructed last year, were completed early in the season of this year. The sewer was extended along Brookline Street and through Douglass Street to Austin Street with a branch in Sidney Street and lateral pipe sewers in Green, Franklin, Auburn and Pilgrim Streets, and connections made with the old Massachusetts Avenue on the separate system, and with Brookline Street, Massachusetts Avenue and Austin Street sewers with the storm water system.

This section of the work is now complete, and many of the abuttors have connected with the new system. The total length of streets containing sewers (in some cases three sewers in one street) constructed and included in this section is 8,366.5 feet. The total cost of these sewers amounted to $70,003.73.

The system in Albany Street and Massachusetts Avenue, east of Albany Street, was completed by the construction of separate sewers in the avenue to the Parkway, and the construction of the storm water outlet in Greenhalge Street. The total length of streets containing sewers in this district is 4,273.3 feet, and the total cost (including the cost of sewers in Albany Street and Massachusetts Avenue, built in 1898 and 1899, is $36,283.74. Of this amount $19,295.32 has been charged to the account of sewer construction.

In view of the importance of collecting data relating to rainfall and its intensity, two rain gauges have been established, — one an automatic gauge by which not only the total amount of rain is automatically recorded, but the rate of fall at any moment. The results obtained from this machine are illustrated by the copies of diagrams on the opposite page.

These were chosen because of the unusually high rate or intensity of rainfall indicated for the short periods, the highest being on August 10, 1900, when five-tenths inches fell in five minutes, or a rate of six inches per hour.

Studies of the flow of water in the sewers have been continued during the year by means of automatic registering machines recording the height of water at two points in each of the sewers being investigated. It is hoped to derive valuable information bearing on this subject from data so obtained.

Work upon the section in North Cambridge, having its outlet in Massachusetts Avenue at Alewife Brook, was begun in August and is now being continued at two points — one on Montgomery Street and one in Sherman Street. It is intended to complete this system from Sherman

Street at Bolton Street through Sherman Street, Rindge Avenue, Montgomery Street, Cottage Park Avenue and Massachusetts Avenue to Lexington Avenue, connecting there with the sewer discharging into the Metropolitan Sewer at Alewife Brook with branches in Bolton Street and Brookford Street — these streets suffering severely for want of adequate sewerage. At some future time the sewer will be extended through Railroad Street and Coggswell Avenue and still farther as required.

WELLINGTON BROOK IMPROVEMENT.

For some years complaints have been received by residents and land owners along the line of this Brook in Cambridge and Belmont, that the bed of the Brook was obstructed and filled up and the flow of water seriously impeded; resulting in a general unsanitary condition of the lands adjoining the Brook, and frequent flooding of the same. In 1899 the matter was made the subject of inquiry by the Board of Health and a report on the subject was submitted by the City Engineer (See Annual Report of Board of Health, 1899). This year a largely attended hearing was given by the Board of Health, at City Hall, and the matter again fully presented and discussed.

Following this, on August 28, 1900, the Board of Health passed a vote requesting the City Engineer, under the direction of the Mayor, to remove obstructions from the channel of the Brook and construct new channels where necessary, in accordance with plans presented. The work was begun August 23, 1900, and was completed September 20, 1900. About 3,250 feet of the Brook was deepened and widened or an entirely new channel formed, the total cost of which was $1,161.35.

The portion of this Brook in Belmont has been treated in a similar manner by the authorities of that town, the whole making a very decided improvement over the former conditions. The question of the proper drainage and the sanitary condition of the whole territory called the "Fresh Pond Meadows" is an important one, and must ere long receive careful attention.

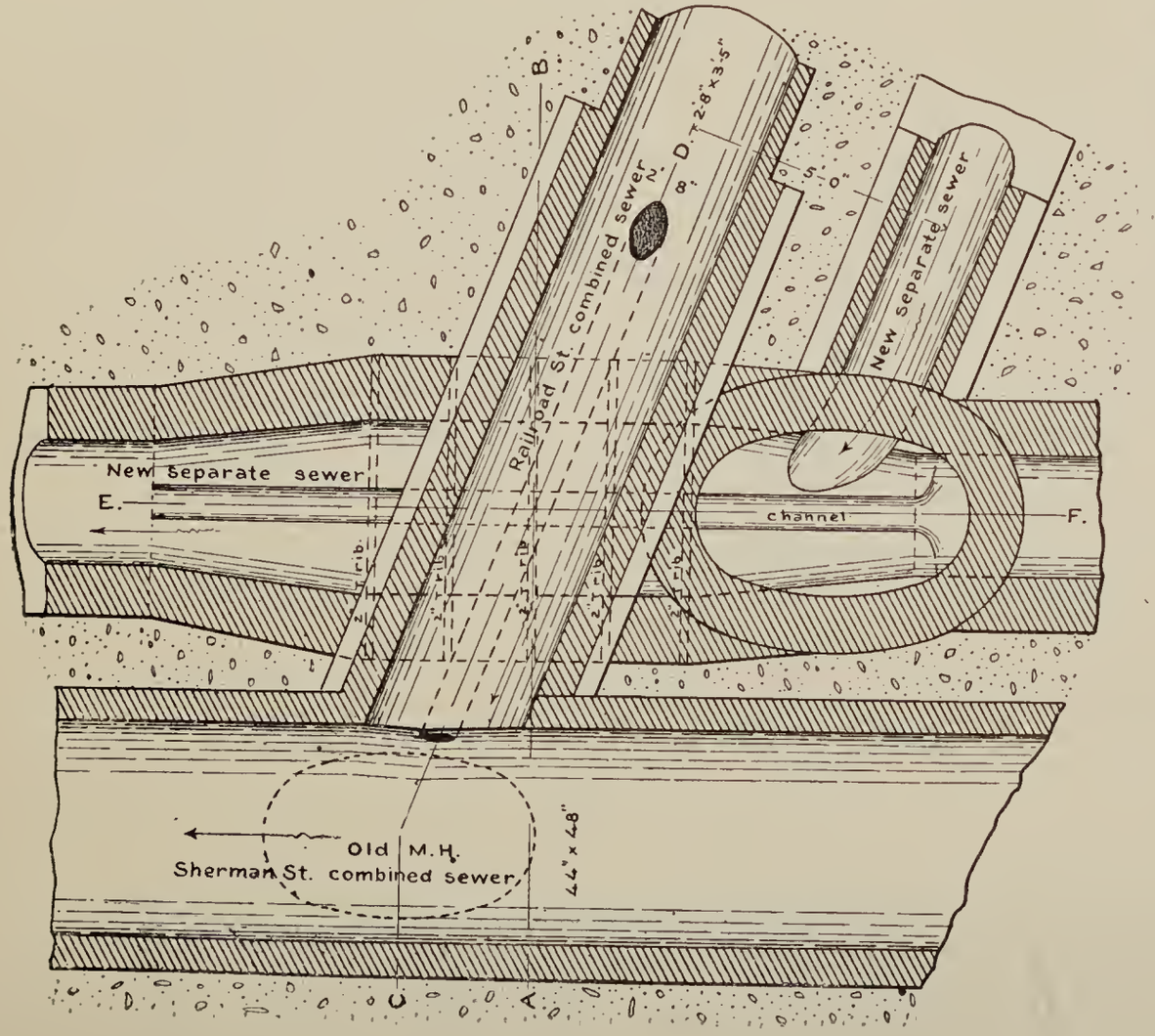
FINANCIAL.

CONSTRUCTION GENERAL.

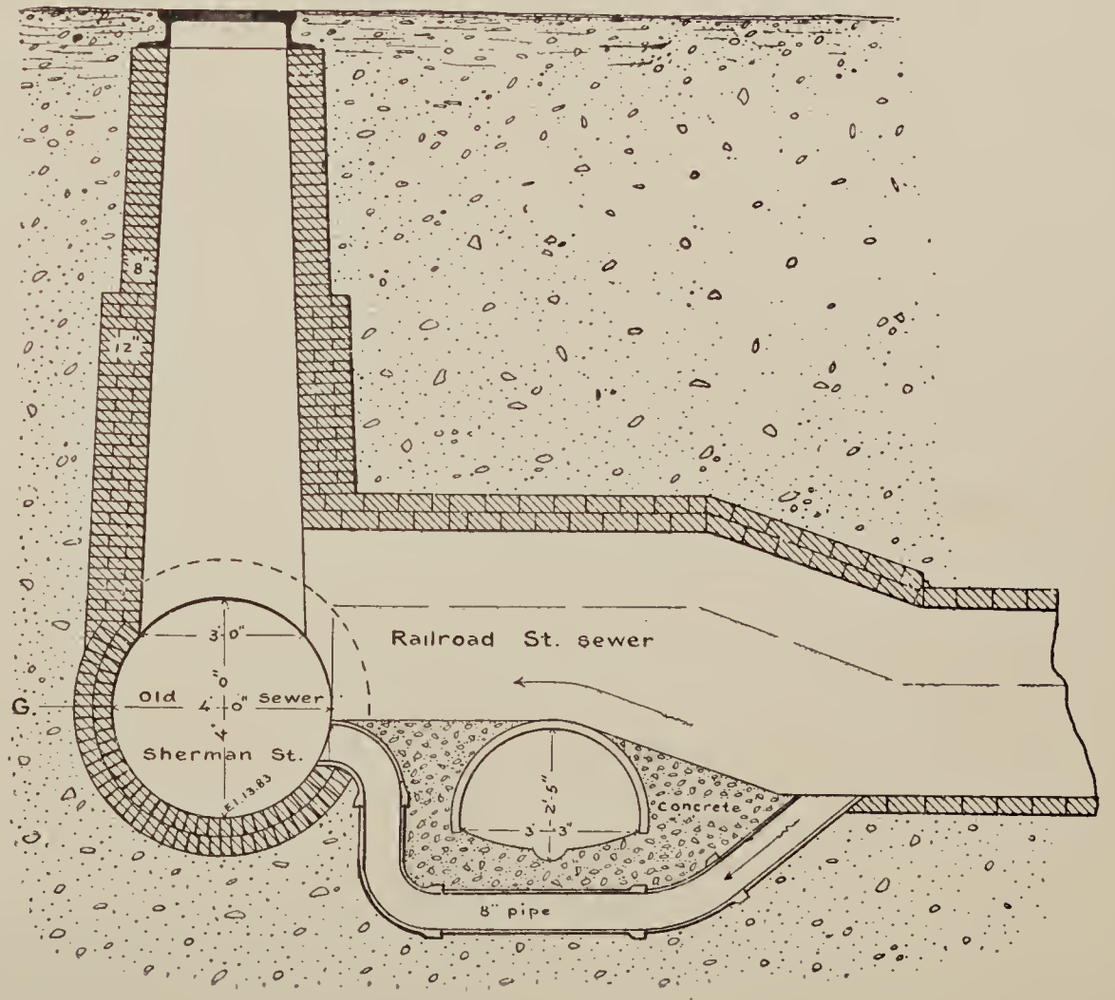
Appropriation	$21,000 00	
Expended	15,206 10	
Balance unexpended		$5,793 90
Received from assessments	$9,250 89	

SPECIAL SEWER CONSTRUCTION SHERMAN AND RAILROAD STS.

PLAN



ELEVATION ON LINE C.D.



MAINTENANCE.

Appropriation		$20,000 00	
Expended		19,755 90	
Balance unexpended			244 10
Receipts	$197 02		

IMPROVED SEWERAGE.

Appropriation (met by loan)		$99,010 76	
Expended		73,619 11	
Balance unexpended			25,391 65

WATER WORKS.

The following statement shows the condition of the water in the various reservoirs since 1870, and affords a ready means of comparison for the different years :—

Year.	*Annual rainfall.	FRESH POND. Elevation of high water, 16.85.				STONY BROOK BASIN. Elevation of crest of dam, 81.00.						HOBBS BROOK BASIN. Elevation of crest of dam, 181.00.			
		Highest Water.		Lowest Water.		Highest Water.		Lowest Water.		No. of days water wasted over dam	Number of Gallons Wasted	Highest Water.		Lowest Water.	
		Date.	El.	Date.	El.	Date.	El.	Date.	El.			Date.	El.	Date.	El.
1870	41.53	April 21	16.85	Nov. 22	12.44										
1871	40.09	May 8	15.32	Oct. 5	12.68										
1872	51.98	Oct. 1	16.17	Dec. 19, '71	13.00										
1873	46.10	April 2	16.55	Nov. 7	12.52										
1874	41.87	June 8	15.24	Nov. 27	11.80										
1875	51.46	June 24	12.60	Feb. 23	8.97										
1876	43.60	May 31	13.27	Jan. 6	10.60	Conduit from Fresh to Little Pond completed.									
1877	48.93	April 7	16.31	Oct. 4	12.05	Filter gallery built at Little Pond—Water drawn to Fresh Pond from Oct. 11 to end of year.									
1878	50.99	May 1	16.43	Nov. 17	13.54	Water admitted to Fresh Pond through conduit from July 26 to the end of the year.									
1879	39.64	May 1	15.80	Nov. 28	12.11										
1880	33.31	April 5	13.08	Nov. 30	8.34	Water admitted to Fresh Pond through conduit from Sept. 28 to the end of the year.									
1881	42.85	April 18	16.04	Feb. 9	7.73										
1882	39.62	Mar. 28	15.87	Nov. 30	10.69										
1883	29.75	April 14	11.93	Nov. 26	5.91	Water admitted to Fresh Pond through conduit from Jan. 24 to April 13.									
1884	46.07	April 27	14.08	Jan. 1	5.54	Water admitted to Fresh Pond through conduit from Jan. 16 to April 10.									
1885	48.98	May 4	10.61	Oct. 29	5.95	Water admitted to Fresh Pond through conduit from Feb. 10 to Mar. 2.									
1886	46.12	May 12	13.74	Dec. 1	6.62	Water admitted to Fresh Pond through conduit from Jan. 13 to Mar. 31. Conduit abandoned 1887.									
1887	43.99	May 1	8.00	Nov. 5	3.32	Aug. 15	75.00	Jan. 22	†51.70						
1888	60.01	May 13	16.25	Jan. 1	9.66	Mar. 22	83.40	Dec. 11, '87	72.43	244	7,315,800,000				
1889	60.08	Jan. 8	16.62	Oct. 12	13.72	Dec. 19, '88	82.91	July 2	80.75	363	10,202,600,000				
1890	49.32	April 10	16.74	July 27	13.69	Mar. 24	82.40	Sept. 6	71.66	302	8,929,800,000				
1891	49.11	Mar. 24	16.78	Aug. 26	12.19	Jan. 23	83.31	Nov. 10	72.20	209	8,214,400,000				
1892	41.17	May 23	16.64	Aug. 3	12.29	Mar. 11	82.80	Nov. 10	69.56	202	3,804,100,000				
1893	39.52	May 5	17.07	Nov. 3	11.67	Mar. 15	82.83	Sept. 9	64.50	133	4,735,800,000				
1894	35.66	June 1	17.15	Sept. 18	10.65	Mar. 7	82.24	Oct. 25	68.40	164	2,852,600,000				
1895	49.72	June 2	17.30	Sept. 15	11.44	April 15	82.56	Dec. 11, '94	74.80	224	5,304,200,000				
1896	41.77	April 27	16.49	Nov. 24	10.95	Feb. 7	83.30	Sept. 5	66.13	225	5,852,700,000				
1897	43.35	June 11	17.34	Dec. 1, '96	11.41	Mar. 25	82.00	Nov. 1	71.02	256	4,016,600,000				
1898	53.09	May 2	17.35	Oct. 19	15.23	Feb. 22	82.27	Aug. 5	75.42	260	5,704,600,000	Oct. 27	181.53	Dec. 16, '97	‡159.60
1899	44.96	Jan. 27	17.15	Sept. 19	13.17	Mar. 6	82.25	July 8	75.30	175	6,969,500,000	Mar. 20	181.27	Nov. 30	175.93
1900	51.29	April 23	17.46	Sept. 16	13.96	Mar. 2	82.81	July 9	77.04	145	4,447,100,000	Mar. 17	181.85	Jan. 10	175.10

* Record of annual rainfall taken at Harvard Observatory during the years 1870 to 1879 inclusive, at Fresh Pond from 1880 to 1889, and at Stony Brook from 1890 to 1900.

† The water gates at Stony Brook Dam were first closed June 9, 1887, with water at elevation at 58.80. Water was formally introduced into Fresh Pond Nov. 15, 1887, and first flowed over dam Jan. 3, 1888.

‡ The water gates at Winter St. Dam were first closed Dec. 16, 1897. The basin filled in 247 days and water first flowed over dam Aug. 20, 1898.

Water wasted over the Stony Brook Dam as follows:

December, 1899	———	gallons
January, 1900	76,500,000	"
February, 1900	1,155,200,000	"
March, 1900	1,687,700,000	"
April, 1900	568,700,000	"
May, 1900	815,900,000	"
June, 1900	114,400,000	"
July, 1900	———	"
August, 1900	———	"
September, 1900	———	"
October, 1900	———	"
November, 1900	28,700,000	"

Total amount passing the dam during the year, 4,447,100,000 gallons.

TABLE: SHOWING COMPARISON BY MONTHS OF THE TOTAL PRECIPITATION AT STONY BROOK BASIN, HOBBS BROOK BASIN, HARVARD OBSERVATORY AND CAMBRIDGE CITY HALL; ALSO THE NUMBER OF DAYS IN WHICH RAIN FELL AT CITY HALL. DECEMBER 1, 1899 TO DECEMBER 1, 1900.

Point of Observation.		1899.	1900.										
		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Total
Stony Brook Basin.	Total Precipitation.	2.04	5.41	10.31	5.55	2.07	4.86	2.98	2.66	2.25	4.85	3.63	4.67	51.29
Hobbs Brook Basin.	Total Precipitation.	1.58	4.47	8.08	5.14	2.38	4.84	2.10	2.41	2.14	4.67	3.40	4.68	45.89
Harvard Observatory.	Total Precipitation.	1.31	4.71	8.18	4.86	1.90	4.93	2.47	2.24	2.76	4.54	3.71	5.24	46.85
City Hall	Total Precipitation.	1.39	3.78	7.52	4.51	1.69	4.65	2.18	2.25	2.88	4.09	3.20	4.86	43.00
	Number of days rain fell.	4	7	6	5	5	7	4	5	6	5	9	6	69

The case of J. H. Leavitt, contractor for stripping Sections "A" and "B" of the Hobbs Brook Basin, has been in contention since the failure of Leavitt in 1895, — Leavitt, through assignees, claiming a considerable sum of money as the balance due him under his contract which he voluntarily abandoned.

The City claimed that no balance was due him, but that it had suffered loss by reason of the increased cost of finishing the contract after his abandonment of the work.

The case was tried in the early part of June and a finding has been made for the City as defendant.

Another case on which a considerable time has been required has been brought by an owner of a farm at the extreme upper end of the Hobbs Brook Basin in Lexington. This is a suit in which several novel claims are advanced.

Two small brooks pass through the farm and discharge into the upper end of the basin as it is now filled with water. The water in these brooks has been raised at their outlets by the filling of the basin one or two feet. It is claimed that this raising of the water in the brooks and basin has rendered the cellar and land about the dwelling house wet and unhealthy, and that even meadows remote from the basin and at a considerable elevation above the level of the water in the basin when filled have been damaged and unfitted for cultivation.

These claims are being vigorously contested. A large number of hearings have been had in this case which is not yet completed.

PARK DEPARTMENT.

The work of the Engineering Department in Park Construction the past year has been of a somewhat miscellaneous character. In addition to the usual time devoted to setting out work, lines, grades and the preparation of studies and detail plans, the following statement of the work of the year is made:—

At the Esplanade, Sections "A" and "B," 1,418.88 lineal feet of edgestone have been placed mostly at street corners and intersections.

The sea-wall having become in places badly out of line and grade, it was decided to relay some of the worst portions to the bottom, and retop the major part of the balance, preparatory to the placing of a suitable iron railing.

This work was done by Mr. T. A. Rowe; he furnishing sloop and crew at a per diem rate. In this way as much or as little of the wall could be laid as was found necessary as the work proceeded. East of Harvard Bridge about 1,555 feet of wall was retopped and the coping reset. West of Harvard Bridge about 1,308 feet of wall was treated in the same manner, and in addition about 350 feet of sea-wall was substantially rebuilt. The total amount paid Mr. Rowe for labor, etc., was $2,792.97. In addition, $344.98 was paid for cement and incidentals, making the total cost $3,137.95. At the same time the wall was back ballasted with chip stone; 2,097.15 cubic yards of stone being furnished by J. C. Coleman at a cost of $2,831.15. On the completion of this work contracts were made for erecting the iron railings. The Chelmsford Iron Foundry Company furnishing and erecting 1,136.15 feet of railing at a cost of $1,638.65, and A. B. Robbins furnishing and erecting 2,609.33 feet at a cost of $3,410.17; 1,949.33 feet of this railing is on the easterly

TABLE SHOWING RAINFALL AT STONY BROOK BASIN AT WESTON, HOBBS BROOKS BASIN IN WALTHAM, AND THE CITY HALL AND HARVARD OBSERVATORY, CAMBRIDGE, DECEMBER 1, 1899, TO DECEMBER 1, 1900.

Day of Month.	1899. DECEMBER.				1900. JANUARY.				FEBRUARY.				MARCH.				APRIL.				MAY.				JUNE.				JULY.				AUGUST.				SEPTEMBER.				OCTOBER.				NOVEMBER.				Day of Month.
	Stony Brook.	Hobbs Brook.	City Hall.	Harvard Observ.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	
1	0.03					0.51	0.68	0.31							1.78	0.16																													1
2		0.07		0.02	0.46			0.57					2.55	1.95		1.67						1.85																		T.						2
3																																								T.						3
4				T.													0.33	0.30	0.43	0.44	0.49	0.20	2.20	1.38		0.12	0.68	0.09																			4
5									1.48	1.02	0.72	0.84		0.03	T.	0.03	0.20	0.20			1.65			0.94	1.15	0.60		0.96	0.07					0.04												5
6									0.20				0.39		0.40	0.23														0.15	0.04																6
7													0.10	0.55		0.29													0.18	0.05		0.06	0.03					0.04									7
8				T.	0.12	0.08		0.09														0.13	0.10	0.06									0.44	0.40	0.21	0.23					0.05		0.30		0.07	0.10		0.02	8
9									0.82	0.55	0.68	0.68									0.19	0.17	0.20	0.08	0.13	0.15		0.09			0.05		0.02	0.05		T.					0.78	0.87	1.60	1.06	0.42	0.43	0.83	0.85	9
10			T.			0.05	T.		0.24	0.12		0.07									0.12			0.17							0.07		0.06	0.50							0.91	0.88	0.23	1.05	0.39	0.42		0.17	10
11					0.02						T.																								0.43												11
12		0.21			1.61	1.20	1.30	1.39		0.02		0.05							0.48	T.						0.02					0.56		0.24	0.05							0.38	0.43	0.12	0.22					12
13	0.33			0.19				0.12	1.48	2.17	1.73	1.38					0.49	0.60	T.	0.55									0.65	0.32		0.47								0.19	0.25		0.20				T.	13
14						0.08			1.00			0.55														0.18	0.10						0.32	0.20		0.29					0.41	0.30	0.45	0.51					14
15	0.27	0.52	0.72	0.37	0.17																	0.12	0.25		0.20			0.07						0.10	0.20	0.26					0.10	0.10							15
16	0.29					0.20	0.10	0.12					1.22	2.20	2.00	1.77					0.34			0.23									0.48	0.25	1.25	0.99	1.01	1.15	1.26	1.30									16
17		0.06			0.17								0.84			0.28				T.												0.36	0.58			0.24		2.10		0.09	0.05							17
18	0.03		0.05	0.05					0.87	0.80	1.02	0.74					0.20	0.25	0.20	0.24		0.05	1.05	0.01		0.18	0.20										2.45	2.60		2.25								18
19			0.35			0.03		T.				0.09					0.51	0.55		0.38	1.22	1.10	0.75	1.25					0.20			0.13	0.20	0.05							0.03				0.08	0.20	0.09	19
20	0.37	0.30		0.33		0.07	0.13	0.08					0.23	0.16	0.13	0.19					0.85	1.10		0.81																			0.24	0.14		0.18	20
21					1.00	0.73	0.35	0.53															0.10							0.02							0.06	0.04	0.54	T.					0.05	0.05			21
22										0.20	1.94	0.39							0.38			0.08					0.95										0.88	0.62		0.81									22
23		0.02		T.					2.56	1.80		1.81					0.09	0.25	0.20	0.15					0.80	0.70		0.94																				23
24			0.27														0.26	0.23		0.14									0.05							T.					0.09	0.08	0.10	0.08					24
25	0.72	.40		0.35			0.42	0.54	1.66	1.40	1.43	1.58																															0.30	0.55	1.30	0.54	25
26					0.37	0.37																							1.18	1.50	1.40	1.33								T.					1.48	1.40	1.38	1.80	26
27													0.22	0.25	0.20	0.24													0.33	0.19		0.18			0.50			0.04								0.75	0.65		0.54	27
28								0.96																									0.16	0.36		0.56		0.05		0.04	0.08	0.03	0.40	0.05	0.06	0.08		0.06	28
29					1.49	1.15	0.80																		0.70	0.33	0.45	0.32								T.					0.55	0.36		0.47					29
30																					0.04																0.21	0.17	0.15	0.14		0.02			0.72	0.65	1.00	0.86	30
31																																															31

side of Harvard Bridge and 1,796.15 feet on the westerly side of Harvard Bridge. In this connection, also, nineteen life ladders were placed at various points on the wall of the Esplanade.

Plans and estimates have been prepared for the proposed extension of the Esplanade by filling and grading from the present terminus opposite the end of Erie Street, westerly to Brookline Street.

On Section "D," including the Captain's Island Beach, 451.63 feet of edgestone have been set in the improvement of grounds and roadways, and a special sewerage system extended to the bath-house. Two hundred and fifty-three feet of ten-inch pipe and 137 feet of eight-inch pipe were laid for this purpose, connecting with the sewer in Magazine Street, and also 311 feet of eight-inch pipe, 271 feet of six-inch pipe and 105 feet of wooden box outlet, built to provide for the surface drainage discharging into Charles River. Four catch basins and one manhole were built in connection with this drain.

It became necessary, also, to build about 420 feet of wooden box drain, eight-inch by eight-inch, as an under-drain to the play-field, owing to one of the drainage ditches being filled up.

Magazine Street from Granite Street to the Parkway, and the Park Road from Magazine Street to Brookline Street were surfaced and graded a total length of 1,490 feet.

The bathing beach has been partly regraded and the whole length, about 850 feet, has been surfaced with gravel, so that now a fine, safe beach is secured.

Nineteen thousand, two hundred and sixty cubic yards of mud were removed under contracts with W. B. Mullen and the Eastern Dredging Company at a total cost of $6,210.00. In preparing the beach 7,519 cubic yards of gravel were placed by the Eastern Dredging Company at a cost of $4,465.30.

At Section "G" 128.8 feet of edgestone have been set.

At Section "H" the Lowell Street sewer outlet has been extended 71.5 feet to correspond with the construction of the beach — one-half the cost being paid by the Sewer Department. 485 cubic yards of mud were excavated from the trench under the sewer and refilled with gravel at the time of the construction of the beach. 19,563 cubic yards of gravel were furnished and placed by the Eastern Dredging Company on this beach at a cost of $9,781.50. One-half the cost of dredging for the sewer extension was $72.75, making the total cost $9,854.25; the completed beach is about 485 feet in length. Four assistants have been employed on park work — two the entire year.

Respectfully submitted,

L. M. HASTINGS,

City Engineer.

REPORT OF THE BOARD OF CEMETERY COMMISSIONERS

CAMBRIDGE, December 1, 1900.

To the Honorable, the City Council:—

The Board of Commissioners of the Cambridge Cemetery respectfully submits its forty-seventh annual report, the same being for the year ending November 30, 1900.

The amount appropriated at the beginning of the year was	$18,000 00
The total amount of expenditure was	17,924 19
Balance of appropriation unexpended	$75 81

For a detailed account of expenses, reference is made to the City Auditor's Report.

The receipts of the year have been as follows:—

Burial and tomb fees	$4,897 50
Care of lots	2,379 10
Sale of lots and graves	5 581 30
Foundations, brick graves, etc.	1,223 46
Interest on Cemetery Fund	1,733 26
Sundries	340 45
Total	$16,155 07
The estimated revenue by this Board was	18 000 00
Decrease of revenue over estimate	$1,844 93

As the City Council had estimated the revenue of this department at $19,500.00 the apparent deficit in the returns amounts to $3,344.93.

Contrary to expectation, the receipts for the year have not appreciably increased over the amount for 1899, and, as that year realized the lowest receipts for a decade past, it is difficult to present any satisfactory reason for the outcome other than was suggested in the last report.

The number of interments have increased appreciably, being sixty-eight (68) more than in 1899, when the burials numbered one hundred (100) more than in the preceding season.

The net income from interments has, of course, increased, but this increase has been more than offset by a decrease in the sums received for care of lots, this latter feature showing the decided loss of over six

hundred dollars ($600.00) for the season. This is to be regretted, not so much for the loss of income, as being indicative of a possible declining interest among lot owners in the preservation of the good appearance, which has been a prevailing characteristic of our Cemetery.

This Board on its part, has been zealous always in its maintenance of the beautiful features of the grounds, but all the zeal and energy, coupled with large expenditure will be of little avail unless lot proprietors exercise needful care of their holdings.

Well graveled avenues and paths, carefully cut borders, shrubbery skilfully trimmed and located, pretty lawn effects, cannot command the attention pleasantly, if their good effects are overcome by the carelessness of individual owners who may neglect even ordinary attention to their lots.

Inertia in this respect, among those interested in lots, is a disease which cannot be cured by the efforts of the Cemetery's trustees, no matter how well directed the effort.

To prevent the evil tendency to carelessness in this regard, attention is again directed to the system of perpetual care in use in the Cemetery.

In this way, lot owners can by the deposit of a reasonable sum with the City, insure the proper care of their lots forever without any further thought on their part. Arrangements may be made even for a particular method of caring for a lot to suit a lot owner at a cost which is within the reach of a great number of our proprietors, who have not as yet availed themselves of this privilege.

The usual rate for perpetual care of a lot is seventy-five (75) cents per square foot, with a slight additional charge for flowers or plants.

The income from this sum (about 4 per cent.) will be applied each year and will suffice for the attention usually given by careful owners.

The number of lots now in perpetual care is three hundred and seventy-one (371), of which number twenty-five (25) were added during the past season.

The Fund now amounts to $49,161.55, including $2,712.00 deposited in 1900.

The expenditures have been about the same as in 1899, although several causes conspired to create an unusually large expense account. The open weather during the fall and the filling of the pond necessitated a great amount of unexpected labor which materially increased the pay-roll.

In general, the Cemetery has presented a creditable appearance, and we think compares not unfavorably in this respect with other cemeteries in this vicinity.

The Superintendent strongly advises the regrading and resurfacing of several of the older avenues, and during the coming season a portion

of River and Summit Avenues, Meadow, Central and Oak Avenues should be thoroughly rebuilt.

These Avenues have never been properly graded, being originally laid out over pasture land, and they should receive a solid foundation to ensure their maintenance in good condition.

The following statistics are taken from the Superintendent's report :—

Number of lots prepared	3
Estimated value of the same	$450 00
Number of lots ready for sale	268
Estimated value of the same	$44,400 00
Number of single graves ready for sale	379
Estimated value of the same	$6,500 00
Number of interments	712
Number of removals to other Cemeteries	16
Number of interments in Cemetery (total)	23,536
Number of burials (Overseers of Poor)	38
Number of lots sold	38
Number of graves sold	25
Average number of men employed	18

The great desire on the part of non-residents to secure places of interment in the Cemetery has been evidenced by the many refusals which this Board has been compelled to make. This course has been taken only to keep for the residents of Cambridge the rapidly diminishing territory at disposal. If the indiscriminate sale of lots were permitted, the City would be compelled to shortly acquire more land at a large expense.

Inasmuch as the legal requirement for the City to supply a burial place for the use of its inhabitants will probably continue in force, it seems wise to retain for its own residents the property it now possesses, more especially as the Cemetery has been practically self-supporting by the method hitherto in use.

For several years past the need of a guard-rail along the line of Meadow Avenue has been urged and it was felt that the erection of a substantial fence along the line of the Cemetery and the adjacent Coolidge estate would be a decided improvement. The cost of a suitable fence has each year prevented its erection, as no special appropriation has been made for such a purpose, but this year the guard-rail has been built and the old fence repaired. The guard-rail removes a source of anxiety as to possible injuries to persons or property. The cost for completing this work was $276.77.

The work of filling the pond on Island Avenue has progressed favorably. For this purpose the sum of $7,000 was appropriated and $3,679.15 has been spent for the material alone, all of the labor incidental to the work having been paid from the general Cemetery appropriation.

The balance of $3,320.85 will probably be sufficient, as a very favorable contract has been made.

It is the intention of the Board to complete the filling and loam the surface ready for seeding in the spring. This will bring into use for burial purposes about one acre of territory in a most available and desirable part of the Cemetery, and will without question prove a decided financial gain for the City, as lots here will find a ready sale and command a good price.

A conference was had with the Committee on Health of the City Council and the Board of Health with reference to securing for the use of the City a portion of the Coolidge estate, and by some it was felt that the health authorities might act in conjunction with the Cemetery Commissioners. A committee of the Board considered the matter carefully and it did not appear expedient or feasible to carry out the suggestion, the opinion of this Board being unanimous in favor of negotiating for the purchase, for its own use, of the Mt. Auburn Cemetery Corporation on Coolidge Avenue immediately adjoining the Cemetery land. With this end in view, a committee of this Board secured a conference with a committee representing the Mt. Auburn Corporation and obtained the consent of the Corporation to sell the property in question. From many points of view, it would seem advisable to make this purchase, and the recommendation is urged for the appointment of a committee to secure this territory as an addition to Cambridge Cemetery.

SOLDIERS' AND SAILORS' LOTS.

During the year the customary care has been given to these lots.

The one on Summit Avenue, recently laid out, has received more than passing notice from visitors, from its conspicuous location, as well as its beautiful appearance. The changes in the grading and turfing last year have borne good results, while the arrangement of the tablets has elicited unqualified praise from those most interested in such matters.

There were five (5) interments during the year, making a total number of twenty-eight (28) now in the lot.

The beautiful vase dedicated to the "Unknown Dead" and donated by the several Women's Relief Corps of this City, makes a pretty effect, and with the appropriate tablets and well-trimmed hedge, the lot has presented an attractive picture, which the casual visitor has admired and with which the more interested spectator can find little cause for complaint. It has been suggested as a desirable addition to this lot, and in keeping with its peculiar purpose, to place on the lot some cannon which might be obtained from the Government for such a purpose, but after consideration it was believed inadvisable to do so, at least, at this time.

Of the old lot on Prospect Avenue little needs to be said. Some of the stones have been reset and many must soon be replaced, as their crumbling condition tells only too plainly that substitution or renewal is inevitable.

The cost of maintenance during the year has been as follows: —

Lot on Prospect Avenue	$56 00
Lot on Summit Avenue	149 00
Total	$205 00

WARD ONE BURIAL GROUND.

Much necessary work has been done in this old burial place during the past season.

On coming into the charge of the Board of Cemetery Commissioners in 1885, it was found that the perfunctory care of preceding years had reduced its condition to little better than a neglected field. Insufficient attention, extending over a period of many years, tended to create a general impression which was repugnant to the growing sense of responsibility in the community, while the contrast with the Cemetery on Coolidge Avenue eventually resulted in placing this burial place of two hundred and fifty years under the guiding influence of this Board.

This is practically the oldest burial place in Cambridge, being almost coeval with the founding of the Town, and since 1635 being the recognized place of interment for the inhabitants. Another place had been undoubtedly first set apart somewhat southwest of this location, but so far as known, few, if any, interments had been made in the five (5) years of the Town's life before this ground was designated.

Here lie buried the good and great of "The Newetowne," many who have contributed not alone to the making of the Town and State, but to the upbuilding of the nation. And here to-day, after the lapse of generations, is the Mecca towards which have been guided the footsteps of numberless ones who come to remember in the silence of prayer or draw inspiration from the deeds of those whose mortal remains lie beneath the sod.

Many of the stones tell of patriotism and valor in defense of the country, of deepest learning and widely reaching charity.

Side by side here sleep "town and gown," for this is the resting place of the early pioneers who skilfully laid the foundation of the University. With these facts ever in mind, the Commissioners have always endeavored to bestow upon this space such attention as would render it a seeming place for the abode of so many who had been honored and respected in life.

During the past decade, the ground has been entirely renovated. Measures have been completed to screen from view unsightly surroundings. The old delapidated fence has been replaced with a substantial iron one, and each year some improvement has been accomplished — all tending to the satisfaction of our fellow citizens.

Yet, as outlined in the last report, a very important feature remains undone.

As years have rolled by the effect of time has been made apparent in the loss of many old tablets and the disfigurement of others, in the gradual effacement of some of the inscriptions, quaint and interesting relics of the past.

The present Board was a unit in believing that the earnest efforts of former years would be of little avail and lacking in permanent result unless the work of renovation and maintenance, hitherto employed in other directions, should be extended to the existing entablature. It was felt that the sum of $1,000 would suffice to carry into effect all that was needful and a special appropriation was requested but without success.

By passing over many projects which deserved attention the Board finally decided to begin the work of rehabilitation, and in September and October, under the immediate direction of Chairman Saunders and Commissioners McNamee and Bertsch, the work was begun. About fifty (50) of the tablets have been relaid and thoroughly fixed in concrete beds. Many of the stones were cracked completely, while others were so weather-beaten that they must soon succumb to the depredations of our winter climate and would be irremediably lost.

The row of tombs in the southwesterly part of the grounds were in bad condition and in some instances required almost entire rebuilding. The old Lee tomb was also repaired and its iron fence reset and painted.

Two old stones were found buried in the soil, one of them dated 1653.

This work cost the sum of $808.50 and probably as much more will be needed to complete the undertaking.

About one hundred (100) more tablets demand attention. In several cases it is desirable that steps be taken to preserve the inscriptions either by causing proper rubbings to be made or employing some other means.

Unless this work is continued, a few years will witness the effacement of many inscriptions of historic value and the demolition of stones which have a distinct interest to this community.

The Board deems it advisable, also, to erect a memorial of some description to indicate its ancient character and to show to the visitor the place of burial of some of the earliest pioneers, such men as Stephen Daye, Thomas Shephard, Simon Stone, Roger Harlakenden, Elijah Corlett

and others. The lives of all of these were inseparably linked with the tale of the colony in its earliest struggles and reflected renown on the community.

The story of Cambridge can never be told without a reference to those whose dust is commingled in this "God's Acre," and mayhaps "their dust will feel the meaning and rekindle in the gloom."

The Board requests special consideration by the City Council in this matter, with the knowledge that there is little doubt of its authority to execute the contemplated improvements, without infringing on any private privileges, as the following reply from City Solicitor G. A. A. Pevey to a communication from the Board will attest: —

October 16, 1900.

To the Honorable, the Board of Cemetery Commissioners: —

Gentlemen: — I have yours relating to the old Burial Ground in Ward One. Upon an examination of the title to the land in question no conveyance appears on record to the City. In the early settlement of the Town it appears that various places were by common consent set apart for the different common uses of its inhabitants. This burial ground seems to thus have been appropriated and set apart for such uses, and has always been used by the Town and City for such purposes, and by ordinance has been for years under the direct care, charge and control of the Cemetery Commissioners.

Apart from the rights of burial, which parties have therein for many years, sanctioned and permitted by the Town and City authorities, it seems to me that it would be difficult for any private person to set up or maintain any other right in or to the burial ground.

Under the powers vested in your Board by general statute, the City Charter and Ordinances, I have no question but that you have the right to clean up and improve this burial ground, and as incident thereto to take up the stones in said ground for the purposes as stated in your inquiry of replacing them more securely. Moreover, under the circumstances of this long occupation, whereby the inscriptions have become to a greater or less extent illegible, and in view of the fact that the public has for so many years taken the general charge and care of the same, it seems to me your Board can do more than is just stated, at least as to those ancient stones, and can renew the inscriptions thereon by cutting or placing some tablet upon the stones, or by some other method, if possible, whereby the old stone can be made to serve the purpose of this use. Just how your Board is to accomplish this result, it seems to me is to be left to the reasonable discretion of your Board, acting with the view of preserving as long as possible what is already upon the grounds and taking into consideration what would be a reasonable expenditure under all the circumstances of the case.

Respectfully submitted,

GILBERT A. A. PEVEY,

City Solicitor.

SUMMARY.

The Board would respectfully request favorable consideration of the following items for special appropriation: —

1. The regrading, refilling and surfacing of Summit, Island, Meadow, Oak and other Avenues. Expense, $500.00.

2. Special appropriation for Ward One Burial Ground. Expense, $1,000.00.

GEORGE S. SAUNDERS, *Chairman*,
HERBERT A. CHASE,
WILLIAM A. BERTSCH,
CHARLES O. WELCH,
NATHAN C. LOMBARD,
JOHN H. H. McNAMEE,

Board of Cemetery Commissioners.

REPORT OF THE SUPERINTENDENT OF PUBLIC BUILDINGS

OFFICE OF THE SUPERINTENDENT OF PUBLIC BUILDINGS,
CITY HALL, CAMBRIDGE, December 1, 1900.

To the Honorable, the City Council of the City of Cambridge:—

GENTLEMEN:—In compliance with the requirements of Section 2, Chapter 13, of the City Ordinances, I have the honor as Superintendent of Public Buildings to submit the fifteenth annual report of this department, containing a complete summary of the building operations in our City, together with such other information as will be of interest in relation to the care and repair of City buildings.

I would again call your attention to the necessity of an additional inspector in this department, as the constantly increasing duties of the office are yearly becoming more exacting and the responsibilities greater. The rapid increase in population, the growth in real estate and large business enterprises, demand more stringent inspection in the construction of buildings, to insure confidence to the public that due care and supervision have been given in their construction.

The need of an additional assistant was never greater than during the past year, when so many important buildings were being constructed. Under statute law, Section 45, Chapter 481, Acts of 1894 of the General Court, the Inspector of Buildings is required in the month of May of each year to inspect every room in every hotel and lodging house of ten or more rooms above the second story in the City, and to ascertain if provisions in Sections 44, 45, 58, of the above Chapter, are complied with, which refers to providing proper appliances to be used in case of fire as a means of egress, and report on the same to the Chief of the District Police.

This inspection requires a great deal of time and labor and has to be thoroughly done, as a single oversight might prove fatal and cost the lives of many; and for this reason the demands for an additional assistant becomes more apparent.

While the number of permits issued during the past year is much less than in 1889, it is gratifying to note the gradual displacement of old wooden buildings bordering on our main thoroughfares, by others built on lines of beauty and containing all modern improvements and conveniences. Several large enterprising ventures in the building line were being con-

sidered in the early part of the year, but a temporary suspension of operation was made necessary, pending the time when a more satisfactory valuation should be placed on building material.

Several attractive and costly buildings have been added to the valuation of our City the past year; among the most noted and important may be mentioned that of the Riverbank Court Trust Building, located on the corner of Massachusetts Avenue and westerly side of the Esplanade, the more important as tending to establish the style of architecture and general outlines of future developments of this section of our City. While this building is not constructed entirely of incombustible material (the floors being of wooden construction) it is built upon lines insuring perfect safety to its occupants, and contains every element of modern architectural construction. The building has six stories and a basement, the external parts being constructed of stone and brick, and contains one hundred and thirty-four suites, is of massive dimensions, solid and substantial in its classic appearance, and reflects credit to those who made possible its construction.

Harvard College has under construction several imposing buildings costing between eight and nine hundred thousand dollars, the most important being the Architectural Building, located at the corner of Broadway and Quincy Streets, the Engineering Building on Oxford and Jarvis Streets, the Laboratory Building on Holmes Field, addition to Museum on Oxford Street, Infirmary on Mt. Auburn Street, and the Club-house on Quincy, Prescott and Harvard Streets. These, together with private enterprises, have added much to the valuation of real estate in our City the past year.

CITY BUILDINGS—CARE AND REPAIRS.

During the past year a large amount of work has been done by way of repairs on our City buildings in order to make them comfortable for the occupants and more comely in appearance.

The amount expended for care and repair of these buildings during the past year was $19,407.56, a tabulated account of which may be found in this report. A constant demand to modernize our old buildings and keep pace with improvements desired calls for increased appropriations yearly. While the amount expended the past year does not exceed the average yearly expenditure, much remains to be done the coming season which will require an increased appropriation over previous years, to meet the demand constantly made by the various departments.

CITY HALL.

The usual care has been bestowed upon this building, but several contemplated improvements were necessarily delayed pending the settlement of introducing a new motive power for running the elevator. The flooring in the basement is badly decayed, which will require immediate attention. A new pump has been substituted for the old one which is used in connection with running the elevator.

It is a pleasure to note the neat and tidy appearance of our City Hall, and calls for the highest commendation to those who have its care in charge. Mr. Charles Gay who has served thirty years continuously as janitor is untiring in his attentions to make and keep this as a model building for cleanliness, and many favorable comments are bestowed upon him by those who have occasion to visit our building. It is a pleasure to speak of one who is so untiring in his duties and conscientious in every detail.

CENTRAL SQUARE BUILDING.

This building is used by various City departments and the demands for improvements are numerous. The condition of this building is not satisfactory. Its general construction is inferior to other buildings used for similar purposes. Contemplated changes are being considered, which, if done, will greatly improve its condition and furnish additional light in the corridors.

BRATTLE SQUARE BUILDING.

This building requires much time and attention to keep in proper condition. It is ill adapted for the purpose for which it is used, as convenience, sanitation and ventilation were almost ignored in its construction. Much has been done in the past; much remains to be done in the future to put and keep the building in a habitable condition for occupancy. During the past year a ladies' toilet room was provided on the second floor for accommodations of those who may be required to attend the sessions of the Court. The gentlemens' toilet has been entirely reconstructed; new fixtures put in and properly vented. During the coming year it will be necessary to repair and fix the Court room now occupied by the Court, and for which the City receives from the County $450 per year. This seems to me to be far too small a rental for the accommodations afforded, and when the room is repainted and put into proper condition I would recommend that a yearly rental of $800 be charged, as this would not be in excess for similar accomodations furnished by other cities for like purposes.

WARD FIVE BUILDING.

Nothing has been done on this building towards making improvements, as it is not adapted for the purpose for which it is being used, and the results would not warrant the expenditure of much money except for such repairs as will keep the building habitable. The building is old and very much out of repair and should be torn down and a more modern structure erected to take its place. The only portion of this building now being used is that occupied by the police department and the Ward room.

CARE AND REPAIR OF CITY BUILDINGS.

CITY HALL.

For fuel	$1,184 96
Electric lighting	773 28
Gas lighting	52 20
Repairs	1,645 74
Supplies	1,293 13
Janitor	1,200 00
Engineer	1,350 00
Fireman	730 00
Watchman	730 00
Sundry labor	2,490 50
Total	$11,449 81

WARD ONE BUILDING, BRATTLE SQUARE.

For fuel	$618 30
Lighting tower clock	130 00
Gas lighting	437 00
Repairs	1,298 75
Supplies	51 25
Janitor	1,400 00
Total	$3,935 30

WARD FOUR BUILDING, CENTRAL SQUARE.

For fuel	$425 08
Electric lighting	340 00
Gas lighting	84 80
Repairs	183 28
Supplies	27 17
Janitor	1,400 00
Extra labor	109 00
Total	$2,569 33

Miscellaneous account	$1,453 12

SCHOOLHOUSES — CARE AND REPAIRS.

A communication addressed to His Honor, the Mayor, from the Secretary of the School Committee, under date of October 26, 1900, in relation to the condition of several of the school buildings, was referred by him to this department, with instructions to investigate and report to him in writing such defects as might be found, and, as far as possible, have the same corrected.

Under date of November 6, Mr. C. H. M. Hunnewell, Inspector of Plumbing, commenced to make a thorough inspection of the several buildings complained of, and his report was submitted to His Honor, the Mayor, on November 15, 1900. The most serious defects were discovered in the Holmes, Riverside and Sargent Schools. So far as the limited appropriation for this work would allow, temporary repairs were made; but during the coming season I would recommend that a sufficient appropriation be made to make it possible to put these buildings into a satisfactory condition. Complaint was also made that at the Taylor School swallows frequented the ventilating shafts and built nests, causing dirt and rubbish to fall into the schoolrooms; also the bad condition of the boys' toilet rooms, but as these defects had been called to the attention of this department in the early summer, and proper changes made (which proved satisfactory), it was not deemed necessary to go to any additional expense. Complaint was also made of the condition of the floors in several of the buildings used for kindergarten purposes. As no money was available for this purpose nothing has been done towards making these improvements. Attention was also called to the dirty and dingy condition of a great many school buildings and asking that they might be put in a thorough condition. It must be conceded as a fact that a great many rooms are in a condition not satisfactory, but for lack of sufficient funds the work done has been somewhat limited, but each year one or more buildings is thoroughly repainted and tinted. It can be noted that during the past year the Gannett School on Jefferson Street, the Wyman School on Rindge Avenue, and the Gore School on Gore Street have been entirely revarnished and retinted.

Also the hall at the English High School has been thoroughly renovated. This was made necessary from the fact that large parts of the cornice had become loosened and ready to fall, which made the room very dangerous for occupancy; for had any of this cornice fallen when the pupils were in the hall serious results would have happened. Inspection of this cornice revealed serious defects in construction, and to such an extent that immediate steps were taken to secure it.

While it might seem desirable to the Committee that more rapid progress should be made towards repainting and retinting the school rooms in the various schoolhouses in our City, it seems to me that their conditions are not of such a serious nature as to call for an unusual appropriation, but that the work should be allowed to proceed on the same lines as in past years. The defects referred to by the Secretary of the School Committee in the various school buildings received prompt consideration, but it is doubtful if the changes made will permanently improve the condition in several of the buildings, as the system of sanitaries now in use in some schools is open to severe criticism. The unsatisfactory conditions existing in some of the toilet rooms in our school buildings is not always attributable to the system in use, but rather to the neglect of proper care from the janitor, who should be held strictly accountable for the conditions found to exist. I would not hold the janitor responsible for all the existing evils or complaints made in the schools, for in several cases I bring to mind where the janitors have been instructed by those in authority over them to do certain things in their buildings which made the ventilating system inoperative and absolutely dangerous to teachers and pupils.

The subject of control of janitors at present is a complicated and decidedly unsatisfactory one, and in order to bring about the necessary reformation essential to obtaining good results from their labors they should be under the control and responsible only to those who are conversant with their duties and competent to instruct them in all the minor details incident to the proper care of their buildings. The subject of ventilation in school buildings should only be entrusted in the hands of competent and experienced persons who are capable of directing and instructing; but this authority invested in several persons without any experience, the whole subject of janitor control becomes a complicated and serious one, and we may well consider the advisability of abolishing entirely the present system of ventilation and resort to the old methods of window ventilation.

The valuation of City buildings is	$335,300
Land	104,300
Furnishings	35,836
Schoolhouses	1,444,000
Land	356,300
Furnishings	92,092
Making a total valuation of	$2,367,828

Responsibility for the care, repair and maintenance of this property increases yearly, and requires constant vigilance and an economical expen-

diture of the small amount yearly appropriated. The amount expended the past year for schoolhouse care and repairs was $74,996.54 divided as follows:—

Janitor	$31,232 10	
Extra labor	1,735 77	
Fuel	17,025 51	
Gas and electric lighting	1,514 91	
Supplies	7,393 70	
		$58,901 99
Leaving only		$16,094 55

for the repairs on the buildings. There are forty-two schoolhouses, of which two are unoccupied. The Dana, located on Centre Street, and the Bridge, located on Pioneer Street. Of this number twenty-six are brick and sixteen of wooden construction. We must consider in connection with these buildings that many of them have been in use a great many years, and the repairs which are absolutely necessary to keep habitable this class of property is much greater than those of more recent construction. There are many and serious faults in the sanitary condition of some of our school buildings which will require the attention of this department the coming season, and a liberal appropriation made by the City Council in order to make the changes necessary to put the buildings in a proper sanitary condition.

Rapid strides have been made in recent years in sanitation and ventilation of our school buildings, but there still remains much to be done, and a careful expenditure of the appropriation for this work will receive a personal supervision.

Complaints are frequently made to this department of the sanitary condition of some of our school buildings, and it is the rule of the department to investigate all such complaints and when defects are found, to remedy, so far as existing financial limitations will allow, the cause of complaint. The constant patching up and repairing of defective sanitaries in our school buildings is unwise as well as expensive, and affords but temporary relief. Conditions which produce bad sanitation in our schools should be removed at whatever cost as the City can ill afford to place itself in a position where just criticism can follow its acts towards its public schools. While it is impossible to transform old buildings into new ones, it is desirable to so improve them with modern sanitary and ventilating systems as will insure their being in a healthy condition.

During the past year an entire new system of sanitaries and ventilation has been installed in the Wellington, Gore and Felton School buildings, for which there was appropriated the sum of $37,000. Of this sum $30,096.95 has already been expended, divided as follows:—

Wellington	$10,188 06
Gore	8,855 52
Felton	11,053 37

WELLINGTON SCHOOL.

An addition of forty-four feet by forty-eight feet was built on rear of the building between the two wings to provide for new sanitary and ventilating system. Advertisements were inserted in the *Cambridge Press* under date of July 18, 1900, and on July 27, 1900, at eleven o'clock A. M., the following bids were opened:—

J. M. & J. C. Buckley	$10,600
F. O. White	9,970
John B. Byrne	9,797
Thomas F. Martin	9,742
Henry McGahey	9,706
William Crane	9,660
I. C. Harris & Co.	9,400
John S. Jacobs & Son	9,375

The contract was awarded to John S. Jacobs & Son, and the papers were signed July 30, and work was immediately begun. Owing to the scarcity of slate the completion of the work was delayed until November.

The sanitary accommodations of this building had been for several years the subject of much criticism, and justly so, for the City was maintaining a building for sanitary purposes, the use of which she had already placed a seal of disapproval upon. The old wooden building was removed and excavations made between the wings of the school buildings to the depth of the basement, which made it possible to enter the toilet rooms from the basement without being obliged to go into the yard. The addition is constructed of brick, having a flat roof covered with tar and gravel. The light is supplied by two large skylights placed over the centre of each room, on top of which is placed a ventilator which is controlled by the janitor.

A large brick ventilating shaft, four feet by six feet was constructed on the outside of the main building, to provide proper ventilation for the toilet rooms, and in this was placed a sufficient amount of radiation to guarantee a constant draft from the toilet fixtures. There has been placed in this addition forty-four fixtures, which are placed on slate slabs five feet wide and two inches thick, dished to strainers which are properly trapped and connected with the main drain. The rooms are sheathed up twenty-six inches high with slate, making it possible to thoroughly wash the floors and base without injury to wood work. That portion of the floors not covered with slate was filled in with three inches of good concrete, and on top of this before it had time to set, was placed one inch of granolithic, composed of one part of Portland cement, one-half part of

crushed stone that would pass through a one and one-half inch mesh screen, and one part of Newburyport clean, sharp sand. This was thoroughly trowelled to a true even surface, free from lumps or depressions. While this addition is connected with the main building, access is gained through the same only by doors in the basement so that any gasses or odors arising are practically outside of the main building and are carried off through the roof by means of the ventilators referred to.

Each closet and fixture is separately trapped and ventilated, and as each vent is taken into the main vent pipe it is increased in size, in proportion, in area to the additional amount taken on. This main vent is carried to the ventilating shaft and from there is carried to a height of six feet above the main building. Access to these toilet rooms is by stairways leading directly from the yard, from which the pupils can gain admission to the main building by another set of stairways constructed for that purpose and which are available during school hours so that the pupils are not exposed to the inclemency of the weather as in previous years.

The old fence which partially enclosed the building has been removed, a portion on the rear of lot rebuilt, the entire yard graded with loam, and granolithic walks built, making the approaches and appearance of this building much more attractive.

A demand has been made in previous years by the Superintendent of Schools for closets that would be adapted for the use of small children, but the department was able to obtain only the regular height closets, which was about sixteen inches high, and anticipating the demand that would be made for smaller closets the past season consultations were held with Messrs. Lock, Stevens & Co. with the result that this firm had made and patented a closet especially adapted for primary schools, and the results were so successful that they were used in three of our school buildings the past summer. The closets finish only thirteen inches in height from the floor, and are known as the Lock, Stevens & Co.'s Beaconia Combination. They are double thick vitreous earthernware hopper with special earthern top, seat vent (two and one-half inches inside measure) to wall, with clamp and flange. Enamelled iron trap for two-inch I. P. on right and left. In securing these closets the City has taken an advanced step towards rectifying an evil which has existed in the sanitaries of our schoolhouses for years.

A careful inspection of the addition and changes made at this building will be conclusive proof that the money has been judiciously expended, and the results all that could be desired.

GORE SCHOOL.

The sanitary condition of this building had for several years been the subject of severe criticism, both from teachers and from the parents of the pupils. The School Committee were opposed to continuing the use of the old sanitaries, and a visit by the Committee on Public Property to the premises convinced them that immediate steps should be taken towards their abolishment, and substituting an entire new system for sanitary accommodations. Accordingly on the 9th of July an appropriation was made by which it was possible to make the necessary alterations. Plans and specifications for these alterations were prepared by Mr. Harry D. Joll, and the advertisement calling for bids for doing this work appeared in the *Cambridge Press* under date of July 18, 1900, and on July 26 the bids were opened with the following result: —

Thomas F. Martin	$6.200
William Crane	5.018
H. L. Rose	4,639

The contract was awarded to Mr. H. L. Rose, who was the lowest competitor, and work was immediately begun. Owing to the delay in obtaining some of the material used in connection with these changes the opening of the school was delayed from Wednesday until the following Monday, at which time work had so far advanced as made it possible to open the school.

The old system of sanitation was the Fuller-Warren system placed in the basement, and had become so defective as to render their continued use a menace to the health of its occupants. On removing the fixtures most serious defects were discovered, which made it necessary to remove from the building all the materials that were used in their construction and excavating in the basement a sufficient depth to guarantee the removal of all the gravel which had become impregnated with foul gases.

After this had been done four inches of clean gravel was spread, on top of which was placed three inches of concrete, and one inch of granolithic as a wearing surface.

The twenty-four fixtures rest upon slate four feet wide and two inches thick. The walls of the toilet rooms, like those at the Wellington School are sheathed with slate twenty-six inches high, and all fixtures are separately trapped and vented. The fixtures are the double-thick, vitreous earthernware, the same make as those used at the Wellington School. To insure perfect ventilation a small steam boiler was installed, which is used in heating the toilet rooms as well as furnishing heat for the ventilating shafts. Toilet accomodations were provided for

the teachers on the second floor. In six of the rooms the desks and chairs were taken up and replaced in a different position so that the light would fall on the desks in a proper direction. New shades were provided for the entire building of the regulation tint. The interior of the building was washed, cleaned and retinted, and all woodwork varnished. The entire building has been put into a thorough condition and the accomodations are far superior to those in many of our other schools.

FELTON SCHOOL.

This is a brick building located on the corner of Amory and Summer Streets and was originally used for high school purposes. The building contained four classrooms, two on each floor, and one of the rooms on the second floor was only accessible by passing through another classroom. It can be readily seen had a fire occurred in this building during a school session (before it was remodelled) the liability for serious disaster is beyond comprehension, and the City would have been placed in an undesirable position. The appropriation for making changes in this building was made in July, and the necessary plans and specifications were prepared and an advertisement calling for bids inserted in the *Cambridge Press* with the following result:—

William Crane	$4,761
Thos. F. Martin	4,715
F. O. White	4,555
John S. Jacobs & Son	4,550
H. L. Rose	4,213

The contract was awarded to H. L Rose, who was the lowest bidder, and work was immediately begun. When time for opening the school arrived it was found necessary to provide quarters for the pupils in another building, and the Superintendent of Schools assigned them accommodations in the Merrill School.

The entrances to the Felton School were formerly on the Amory Street side or end of the building, from which they have been removed to the Summer Street side. The interior of this building has been entirely reconstructed, rooms rearranged, new hard pine floors substituted for the old ones, new windows were provided to take place of the old ones, and, in fact, everything done to put the building in first-class condition.

The first floor contains two class rooms, a kindergarten room, teachers' room and the necessary dressing rooms. The second floor contains two class rooms, a kindergarten room, store room, reception room and the dressing rooms. All rooms are well lighted and adapted for the use for which they were intended. A new heating and ventilat-

ing system was placed in the building, consisting of a small steam boiler and two furnaces. Fresh air is taken into the cold air rooms located in the basement and heated to a proper temperature, and is then carried to the various rooms through galvanized iron pipes. These pipes are carried through a fire-proof shaft made of angle iron and plastered on expanded metal lathing. The ventilation is by the gravity system, and each room is ventilated by means of a twenty-four by thirty-inch galvanized iron duct, which is carried to the attic, where they are joined into one large shaft and carried through the centre of the roof, on the top of which is placed an enamelled ventilator or hood. Each of these ventilating ducts is provided with a coil of steam pipes, insuring a constant draft from the rooms. A portion of the furniture was replaced with new adjustable chairs and desks, and the remaining portion was thoroughly smoothed and polished and provided with the latest adjustable castings, making it possible to accommodate every child with a chair and desk of the proper height. The old fence on the street sides was removed, the lot properly graded and loamed, a granite curbstone with granolithic walks was built on the two streets in front of the building and continuing to the main entrance on the sides.

Many complaints had been made to this department of the conditions of the approaches to this building during stormy weather, but relief was lacking, owing to limited appropriations. The grading and building of walks was done under the direct supervision of Mr. Howard E. Whiting, the Superintendent of Parks, and the results reflect credit upon his department.

The sanitary accommodations for this school had been the subject of much adverse criticism, and those who had investigated their condition were pronounced in their condemnation and recommended their immediate abandonment. The department was unable to give relief until the necessary appropriation was made, which was in the early summer. The sanitaries were in a brick building which was located in the rear of the schoolhouse, and was only accessible for the pupils by going from front of the building to the rear, a distance of nearly one hundred and seventy-five feet. In cold, stormy weather one can readily understand the danger to which a pupil was subjected when forced to leave the schoolrooms during a session, leaving a room whose temperature was from seventy to seventy-four (which is often the case), and being exposed to a temperature outside varying from twenty to perhaps seventy degrees. The result of these exposures is hard to conceive, but it is safe to presume that the sickness of a great many pupils could be traced to this barbarous practice of compelling children of tender years to expose themselves to changes and conditions which were so unhealthy. The parents of children attending this school may well feel

proud of its changed conditions and grateful to the City who made it possible by its liberal appropriation to remove from one of its school buildings conditions which for years have caused them so much anxiety and tender solicitation for the welfare of their children.

The toilet accommodations are now placed in the basement of the building. They are of the latest pattern, the same as used in the Wellington and Gore Schools and are working very satisfactorily. This building can now be classed among the model sanitary ones in our City, and the outlay for repairs for some years to come must be very slight.

GANNETT SCHOOL—Jefferson Street.

The sanitary condition of this building is very bad and needs immediate attention. The sanitaries are placed in the basement, and the old-style closet, antiquated, and unfit to be continued in use. The toilet-rooms and surroundings have become impregnated with foul gases, and the only safe remedy is to remove the entire system and substitute more modern fixtures. Slight changes were made in the drains the past season, but I was opposed to laying out any large amount upon the system where conditions would remain unchanged and the source of danger still remain. The walls and ceilings of this building were retinted, the woodwork revarnished, new window shades furnished, and the building outside of its sanitaries put into good condition.

HARVARD SCHOOL.

This building, which was partially destroyed by fire on the night of March 21, 1899, has been completed and newly furnished during the past year, and is occupied for school purposes. Many changes and improvements were made in reconstructing it, among which may be noted the modern system of heating and ventilating the building. An investigation of this school building immediately after the fire had occurred exposed some very damaging defects, particularly as to the construction of the ventilating ducts. The entire building was honeycombed with a network of wooden vent-shafts, which made it possible for a fire once getting started in any portion of the building to be distributed by means of these shafts to every schoolroom.

Fortunately no such work enters into schoolhouse construction at the present time as all vents are either constructed entirely of galvanized iron properly protected from all woodwork, or else built entirely of brick. The wisdom of fireproof construction in schoolhouses cannot be overesti-

mated. I believe in statute law that will compel all large cities to construct their school buildings of incombustible material (when more than two stories in height).

DUNSTER SCHOOL.

Several improvements were made in this building during the past season. The old stairs leading into basement were removed, and new ones substituted, partition moved, and necessary repairs in the plumbing line were made.

NEW SCHOOLHOUSE.—Ward One.

Corner Felton and Cambridge Streets.

"In Common Council, July 10, 1900.

ORDERED, that the sum of Eighty Thousand Dollars ($80,000) is hereby appropriated for the construction and furnishing of a fourteen (14) room schoolhouse in Ward One. Said sum to be provided for by a City Schoolhouse Loan as authorized by an order of this date."

The order was concurred on July 10, 1900, and approved July 16, 1900. Plans have been prepared and estimates called for, but owing to the high cost of material and the desire to furnish the building with all the latest improvements, it was found that the cost exceeded the amount appropriated, and a necessary delay was caused in order to make such changes as would allow the building to be constructed inside of the appropriation. The changes made proved satisfactory, and the estimated cost is $71,450.00. Messrs. Fessenden & Libby have been awarded the contract, and I expect the papers will be signed in a few days, after which work will immediately begin. It is expected that it will be completed and ready for occupancy by January 1, 1902.

LEE STREET SCHOOLHOUSE.

Under an order passed by the City Council October 16th, and approved October 18th, I was authorized to sell the Lee Street Schoolhouse property at public auction. Mr. S. R. Knight was engaged to sell the property, and, after thoroughly advertising the sale, it was offered at public auction on Monday, November 12th, and was bought by Mr. Horace B. Howlett for $6,000. Owing to a defective title the deeds have not been passed.

The following shows the amount of coal consumed in the various school buildings during the past year: —

	Tons.
Agassiz	60
Allston	80
Boardman	35
Cushing	15
Corlett	10
Dunster	25
Ellis	150
Felton	38
Gannett	60
Gannett (old)	20
Gore	65
Harvard	150
High	300
Holmes	15
Lassell	33
Latin	400
Lowell	30
Merrill	85
Morse	170
Otis	50
Parker	45
Carried forward	1,836

	Tons.
Brought forward	1,836
Peabody	170
Putnam	170
Reed	25
Rindge Manual Training	250
Riverside	28
Roberts	160
Russell	105
Sargent	35
Shepard	70
Sleeper	75
Stearns	38
Tarbell	35
Taylor	120
Thorndike	95
Washington	80
Webster	140
Wellington	140
Willard	75
Wyman,	45
Total	3,692

REAL ESTATE BELONGING TO THE CITY.

SCHOOLHOUSES.

	Feet of Land.	Purchase of Land.	Erection of Building.	Valuation of Land.	Valuation of Building.	Valuation of Furniture.
Agassiz	19,689	1874	1875	$8,000	$20,000	$1,215
Allston	15,193	1857	1857 1873 remodelled	4,600	30,000	1,795
Boardman	10,018	1866	1868	4,000	13,000	1,290
Bridge	4,646	1836	1836	1,400	500	.....
Corlett	10,000	1880	1880 purchased	1,200	3,000	195
Cushing	14,787	1880	1880 purchased	1,500	3,000	136
Dana	14,317	1847	1848	4,300	2,000	100
Dunster	10,000	1857	1871 remodelled	3,000	3,000	261
Ellis	25,700	1897	1898	6,000	48,000	2,993
Felton	15,090	1847	1848	4,500	6,000	200
Gannett	15,434	1876	1886	3,000	12,000	430
Gannett (old)	27,673	1864	1865	2,600	2,000	395
Wellington		1875	1884	5,700	50,000	2,240
Gore	9,900	1871	1871	4,000	50,000	825
Harvard	20,494	1870	1871 burned 1899 rebuilt	12,000	65,000	3,769
High	74,366	.....	1891	40,900	220,000	9,220
Holmes	11,182	1870	1870	5,000	5,500	275
Lassell	10,000	1880	1880	3,000	8,000	272
Latin	79,759	1894	1897	43,800	225,000	27,150
Lowell	12,033	1883	1883	3,600	5,500	402
Merrill	37,828	1861 1864	1864	19,000	45,000	1,425
Morse	25,650	1889	1890	7,000	73,000	2,040
Otis	8,270	1842 1857 1858	1859 1870 remodelled	4,000	20,000	930
Parker	12,319	.....	1893	7,000	15,000	710
Peabody	21,813	1887	1888 1898 enlarged	9,800	68,000	3,340
Putnam	14,400	1825 1847 1896	1825 removed 1847 torn down 1889 rebuilt	9,800	64,500	2,550
Reed	12,000	1868	1868	1,200	4,000	310
Rindge, M. T.	81,128	.....	1887	44,000	56,000	8,000
Riverside	11,198	1868	1868	3,000	5,000	330
Roberts	16,400	1898	1898	12,000	48,000	3,003
Russell	33,073	1895	1896	6,000	40,000	2,440
Sargent	9,995	1838	1838	5,000	3,000	255
Shepard	14,755	1855	1856 1873 enlarged	11,000	26,000	1,047
Sleeper	21,284	1894	1894	5,000	24,000	1,190
Stearns	10,050	1812	1841 burned 1843 rebuilt	5,000	3,000	322
Tarbell	19,500	1878	1882	4,900	7,000	355
Taylor	23,592	1894	1895	6,000	36,000	1,720
Thorndike	10,027	1860	1860 1875 remodelled	4,000	30,000	1,676
Washington	14,951	1851	1851 1871 remodelled 1878 altered	10,000	25,000	1,830
Webster	25,839	1852 1866 1889	1852 1873 remodelled 1885 enlarged	9,000	50,000	3,550
Willard	20,079	1869	1870	7,000	25,000	1,350
Wyman	14,347	1871	1871 1886 addition	4,500	5,000	555
				$356,300	$1,444,000	$92,091

CITY BUILDINGS.

	Feet of Land.	Purchase of Land.	Erection of Building.	Valuation of Land.	Valuation of Building.	Valuation of Furniture.
City Hall	47,878	1888	1888	$72,000	$200,000	$29,800
Brattle Sq. Bldg	16,153	1873	1874	16,000	60,000	2,500
Central Sq. Bldg.	13,028	1872	1873	10,500	50,000	2,436
Station 3	4,220	1862	1870	2,100	20,000	800
Ward 5 Bldg	6,316	1872	1873	3,700	5,300	300
				$104,300	$335,300	$35,836

SCHOOLHOUSES—CARE AND REPAIRS.

Schools.	Fuel.	Light.	Repairs.	Supplies.	Extra Labor.	Janitor.	Totals.
Agassiz	$313 12	$3 50	$111 92	$40 93	.....	$625 74	$1,095 21
Allston	342 55	175 50	983 35	76 20	.....	580 77	2,158 37
Boardman	162 15	11 40	181 86	38 95	$8 50	625 74	1,028 60
Corlett	48 09	.....	16 07	.....	.....	249 94	314 10
Cushing	68 61	.....	166 18	1 00	.....	249 94	485 73
Dana	.....	8 70	54 20	.....	.....	92 28	155 18
Dunster	106 86	.....	213 20	71 96	.....	449 56	841 59
Ellis	672 30	3 10	657 82	100 41	29 78	792 12	2,254 53
Felton	180 26	7 20	63 12	1 98	.....	372 99	625 55
Gannett	284 96	14 20	223 32	7 25	.....	499 88	1,029 61
Gannett (old)	81 80	80	20 00	.....	.....	388 37	490 97
Gore	269 75	20 00	116 88	4 70	.....	760 56	1,171 89
Harvard	826 66	5 11	178 22	3,330 07	.....	1,030 87	5,370 93
High	1,154 03	327 78	1,552 64	218 94	624 00	1,800 00 808 24	6,485 63
Holmes	61 35	14 00	191 77	6 22	.....	343 58	616 02
Lassell	185 03	.....	147 13	8 25	.....	395 56	735 97
Latin	1,497 04	101 70	1,895 43	777 46	192 00	1,800 00 935 00	7,198 63
Lee St	39 10	16 32	22 48	4 75	.....	270 00	352 65
Lowell	122 70	3 30	78 96	18 71	.....	343 57	567 24
Merrill	472 25	40	750 29	389 45	10 00	780 75	2,403 14
Morse	1,151 90	27 70	399 01	17 70	.....	1,104 01	2,670 32
Otis	492 21	10 50	1,718 42	420 00	.....	625 74	3,266 87
Parker	199 62	6 70	287 95	1 10	.....	521 48	1,016 85
Peabody	695 50	6 90	276 59	461 27	27 25	1,060 86	2,528 37
Putnam	1,311 92	53 83	117 84	13 79	.....	1,104 01	2,601 39
Reed	113 55	.....	60 57	13 35	.....	395 56	583 03
Rindge, M. T.	1,026 75	219 35	142 28	137 27	185 74	1,261 53 1,081 99	4,054 91
Riverside	126 92	.....	137 69	25	.....	369 50	634 36
Roberts	903 70	7 20	137 24	221 55	.....	791 12	2,060 81
Russell	435 60	15 80	47 87	27 05	.....	791 12	1,317 44
Sargent	186 30	21 70	46 05	10 50	.....	366 82	631 37
Shepard	290 50	49 75	255 48	.....	.....	760 56	1,356 29
Sleeper	314 77	.....	172 54	50	.....	636 54	1,124 35
Stearns	166 62	23 90	134 96	1 12	.....	344 19	670 79
Tarbell	159 02	.....	88 18	9 09	.....	369 51	625 80
Taylor	496 95	9 70	240 65	37 81	.....	766 56	1,551 67
Thorndike	354 81	79 30	417 52	55 03	.....	730 00	1,636 66
Washington	390 20	50 20	152 16	27 47	.....	782 16	1,402 19
Webster	422 20	108 55	2,574 50	12 74	.....	999 70	4,117 69
Wellington	353 10	27 90	541 44	46 40	.....	663 48	1,632 32
Willard	3 2 75	15 00	246 61	3 75	.....	760 56	1,348 67
Wyman	197 55	.....	243 41	2 35	.....	478 28	921 59
All Schools	24 46	67 92	60 75	776 37	658 50	272 36	1,860 36
	$17,025 51	$1,514 91	$16,094 55	$7,393 70	$1,735 77	$31,232 10	$74,996 54

INSPECTION OF BUILDINGS.

Following is a table showing the number of inspections made by this department and the character of alterations ordered when the Inspector's services have been required in the interest of public safety and the proper enforcement of the building ordinances: —

Inspections	2,613
Inspection of chimneys	249
Inspection of buidings to be moved	4
Foundations condemned	3
Foundations ordered relaid	3
Defective conductors and gutters	17
Dangerous chimneys	21
Buildings too near adjoining lot	3
Buildings in a dangerous condition	4
Defective construction in fire-places	9
Building without a permit	11
Permits cancelled	5
Changes ordered in furnace pipes	17
Changes ordered in plans submitted	21
Plans rejected	2

The following table shows the number of permits granted in each Ward and the use for which they are intended :—

Buildings.	WARDS.				
	1	2	3	4	5
Additions	32	28	12	19	38
Alterations and repairs	13	18	7	7	5
Carriage houses	3	5	6	5	6
Chimneys	..	1	..	..	..
Dwellings	29	20	4	14	30
Dwellings and stores	1	..	..	..	..
Factories	1	..	1	..	1
Foundations	7	13	6	6	6
Heating apparatus	4	8	1	6	..
Stables	3	2	1	1	1
Stores and offices	..	6	2	3	3
Storehouses	1	3	6	1	5
Miscellaneous	..	..	..	..	..
	112	114	51	76	102

Of the foregoing permits, 424 were issued for wooden structures and 31 for brick and stone, making a total of 455.

BRICK BUILDINGS.

Additions	6	*Brought forward*	23
Alterations and repairs	6	Engineering Building	1
Apartment houses	3	Factories	2
Architectural Building	1	Gas House	1
Athletic Building	1	Infirmary	1
Chapel	1	Museum	1
Clubhouses	3	Schoolhouse	1
Dwellings	2	Storage	1
Carried forward	23	Total	31

Number of permits granted for each month for the years 1899 and 1900:—

	1899.	1900.
December	30	25
January	31	19
February	14	20
March	65	30
April	86	53
May	71	49
June	86	52
July	72	49
August	53	46
September	61	32
October	36	49
November	40	31
Totals	645	455

COST OF BUILDINGS ERECTED IN 1900.

	Ward 1.		Ward 2.		Ward 3.		Ward 4.		Ward 5.		Totals.	
	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.
December ..	$60,000	$50	$15,300	$5,150	.....	$1,150	$3,950	$325	$9,700	$50	$88,950	$6,725
January	4,500	75	5,600	150	$2,100	1,700	100	865	4,100	200	16,400	2,990
February ...	2,300	1,500	2,500	2,800	4,300	1,100	610,350	100	5,800	400	625,250	5,900
March	10,500	1,800	6,000	5,950	4,500	700	7,250	.....	11,500	500	39,750	8,950
April	31,350	7,000	38,100	1,435	18,850	9,000	2,625	750	13,450	2,425	104,375	20,610
May.....	79,025	900	11,300	2,325	3,000	5,000	9,350	6,150	26,525	1,800	129,200	16,175
June	37,000	6,275	2,800	665	7,350	500	6,000	2,840	22,590	1,300	75,740	11,580
July.....	28,500	1,935	500	12,750	28,000	675	350	1,300	9,100	1,700	66,450	18,360
August	360,700	4,800	8,575	420	7,200	2,000	3,300	100	25,900	1,800	405,675	9,120
September ..	77,500	138,830	725	11,300	.....	21,560	4,000	200	150	300	82,375	172,190
October	220,950	6,380	21,200	3,975	2,050	345	10,000	525	75	3,775	254,275	15,000
November ..	57,500	1,825	17,600	2,450	.....	5,000	3,850	1,610	500	240	79,450	11,125
Totals....	$969,825	$171,370	$130,200	$49,370	$77,350	$48,730	$661,125	$14,765	$129,390	$14,490	$1,967,890	$298,725

INSPECTION OF PLUMBING.

This branch of the department is under the charge of Mr. C. H. M. Hunnewell, a good mechanic and a thoroughly qualified man to attend to the details of his office. This branch is an important factor in connection with the construction of buildings in our City, as all plumbing work is under his supervision, and a thorough inspection made to see that the work conforms to the requirements of the ordinance and the enactments of the Legislature. The following are the statistics of the work of this department for the year ending November 30th, viz.: —

Number of applications received and permits granted	636
Number of tests and inspections	1654
Number of jobs found defective or otherwise not in accordance with the Plumbing Ordinance	41
Number prosecuted for violation of Plumbing Ordinance	1
Number of master plumbers registered	42
Number of master plumbers licenses granted	6
Number of master plumbers licenses renewed	22
Number of journeymen plumbers licenses granted	11
Number of journeymen plumbers licenses renewed	14
Number of permits cancelled	6
Master plumbers holding certificates	30
Journeymen plumbers holding certificates	44
Master plumbers holding licenses	41
Journeymen plumbers holding licenses	57
Amount received for license fees	$35 50

In conclusion I desire to express my pleasure, and recall the cordial relations which have existed between the Committee on Public Property and this department.

To His Honor, the Mayor, I desire to express my appreciation of the valuable services rendered and advice given me in matters pertaining to the interests of the City.

Respectfully submitted,

WILLIAM H. GRAY,
Superintendent of Public Buildings.

REPORT OF THE TRUSTEES OF THE CAMBRIDGE PUBLIC LIBRARY

To the Honorable, the City Council: —

The trustees of the Cambridge Public Library respectfully submit their forty-third annual report, covering the year ending November 30, 1900.

The facts and figures concerning the work of the year are sufficiently set forth in the accompanying report of the librarian. They show continued prosperity and progress, and furnish renewed evidence of the executive ability of the librarian and the efficiency of his corps of assistants.

The trustees are particularly gratified to learn that the familiar lectures to young people on the use of books, by Miss Russell, the head assistant, were so well appreciated that she has been asked to repeat them the coming year.

The librarian again calls attention to the urgent need of an addition to the stack. Shelf-room has to be found for about four thousand volumes each year, and it is important that these should be arranged according to a definite system of classification. Already, as the librarian states, it is more and more difficult to do this, and it has become necessary to store some of the books in the basement, which is not suitable for such use. The trustees hope that measures may be taken at once to extend the stack and thus to provide for the proper care of these books and those that will be added to the library for some years to come. As the librarian remarks, this will involve no expense for land. For the original building, with the land on which it stands, and more than enough for all additions that it can ever need, we are indebted to the generosity of Mr. Rindge; and we are confident that the people of Cambridge will never grudge the comparatively small outlay required from time to time to continue the good work begun by him, and to keep the building and its equipment up to the standard established by his munificence.

The trustees have given careful consideration to the question of the establishment of branch libraries in wards 4 and 5. The trustees decided a year ago that better quarters for the East Cambridge branch were imperatively needed, but the plans which, after mature deliberation,

they suggested for obtaining these have not yet been adopted by the City Council. They believe that until this branch is properly housed and equipped further experiments of the kind are inexpedient. This subject is more fully discussed in the report of the librarian.

The trustees have already approved the recommendation of the librarian that the age limit in regard to applications for cards be abolished.

WILLIAM J. ROLFE,
WILLIAM TAGGARD PIPER,
For the Trustees.

REPORT OF THE LIBRARIAN

CAMBRIDGE, MASS., November 26, 1900.

To the Trustees of the Cambridge Public Library: —

GENTLEMEN: — Shortly after my last annual report was submitted, an opportunity was afforded to obtain very desirable quarters for our East Cambridge branch in a new building, of which the library was to be the principal tenant. The proposition met with the entire approval of your board, but as no appropriation was made by the City Council to cover the necessary expense, the subject was dropped. I regret that so promising a chance to place this branch on a permanent and satisfactory basis could not be improved, particularly as we have recently been asked to submit to the incoming City Council estimates of the cost of establishing and maintaining branch libraries in wards 4 and 5. In each of these sections of the city it is probable that the people who would make use of a branch library would largely exceed in number those whom we now serve in ward 3, especially as the last-mentioned district is much better connected by street cars with the main library than is any other part of Cambridge. For this reason, the cost of maintenance of either of the proposed branches is likely to be larger than that of the one we now have, even were this properly equipped; and, with this probability in mind, I think it would be advisable that any future branch library be planned at the outset on a somewhat larger scale. The East Cambridge branch has done good work, and at small cost to the city, but its growth has been practically stopped for lack of room. All the space suitable for shelving has been occupied, and the reading-room is altogether inadequate for the number of people who desire to use it. Undoubtedly, we took the best rooms we could get when this branch was started, but nevertheless we may profit by the experience gained there when making plans for any similar extension of our work.

To the general question of the advisability of establishing branches as a means of increasing the usefulness of the library, there can be but one answer, and that an emphatic affirmative. Delivery stations meet a certain need, but, even under the best conditions, there is a distinct limit to the service that can be rendered through them. And the success that

has attended our small deposit collections, even to the detriment of the circulation through the neighboring local stations, is significant of what branch libraries can accomplish.

Again I must urge upon your attention what is now our most pressing need, and that is an addition to the stack. The steady growth of the library makes it more and more difficult to arrange the books to the best advantage, and certain divisions which should be together are now located in different parts of the building. A few weeks ago some inexpensive shelves, of which the capacity is about one thousand volumes, were erected in the middle room of the basement. This is a very small relief, however; and even if additional shelving could be placed there, it would be an unwise proceeding, as the room is not suited to the storage of books. We are far more fortunate than most city libraries in possessing plenty of land for the extension of our library building, and the cost of the desired addition will therefore be much less than is usually the case. The present lack of room hampers in many ways the natural development of the library, and it is a subject that claims your careful consideration.

During the coming year the interior walls and some of the ironwork of the stack should be painted, and portions of the woodwork in the reading-rooms and delivery-room should be varnished.

Before leaving the subject of the library building I wish to express the hope that the improvement in the car service on Broadway may continue until it shall be possible for people who make use of the North Cambridge and Huron avenue lines to reach the library without changing cars. I am but quoting opinions expressed to me many times when I say that the use of the library would be greatly increased if better car connections could be effected with the parts of the city indicated.

As a contribution to the history of the library, we have sought during the past few months to make a collection of photographs of all who have served as trustees. Miss Russell has had charge of the matter and has met thus far with gratifying success. We already have more than half the total number, including many photographs which were likely to be difficult to obtain. I hope to print as an appendix to this report a corrected list of all present and past members of the board with their terms of service.

In the tables appended you will find the usual details of the work of the library for the year. The total circulation of books has been larger than ever before, despite the decrease at the East Cambridge branch. With the exception just noted, the local circulation shows little change from last year. There has been an increase of nearly twenty per cent in the number of books sent to the schools; and it is deserving of mention

that the Putnam school in East Cambridge, of which Mr. Davis is master, has received more than one-fifth of the entire number. The Latin school, like the English high school, is now one of our nearest neighbors, and it is no longer necessary for our carrier to deliver books there.

Two informal lectures were given by Miss Russell last spring, at my request, on the use of books, particularly with regard to the reference library. These talks were for the pupils of Miss Hardwick and Miss Perrigo of the Latin school and were so successful that a request has been made that they be repeated this year.

In accordance with a recommendation in my last report, an additional typewriter has recently been bought for cataloguing purposes. The card catalogue increases in bulk very rapidly as the result of the natural growth of the library and of the progressing classification of the old books. We have also subscribed for some of the A. L. A. analytical cards for miscellaneous sets. Consequently, although we purchased last spring a new case of catalogue trays, it may be found necessary to add still another before the end of the coming year.

It has long been the rule that any resident of Cambridge, above thirteen years of age, might have the full privileges of the library by receiving a card in his own name. A few years ago, the librarian was authorized to use his discretion in granting full privileges to applicants under thirteen. The liberal interpretation of the rule, thus permitted, has not unnaturally resulted in making the rule itself unnecessary. I recommend that the age limit be abolished entirely, and that any applicant under twelve years of age be required merely to obtain the endorsement of parent or guardian on his application blank.

The only change in the library staff during the year has been caused by the resignation of one of the evening attendants, Mr. H. S. Whittemore. His place has been filled by the appointment of Mr. J. C. Fearns. Mr. Joseph H. Furbush, of the Cambridge police force, has been detailed for duty at the library building, in place of the late Sergeant Sproul, and has proved himself thoroughly adapted to the requirements of the position.

By the kindness of Miss Mary Woodman, we have received more than five hundred volumes as a gift from the estate of her father, the late Cyrus Woodman. The books include Maine and New Hampshire local histories, American explorations, genealogies, and a nearly complete set of Niles' *Register*. Most of the books have been catalogued and are now on the shelves, and together they constitute one of the most valuable gifts ever made to the library.

Respectfully submitted,

WILLIAM L. R. GIFFORD,

Librarian.

APPENDIX I

GENERAL STATISTICS.

Total number of volumes in the library	59,018
Volumes added during 1900	4,251
Volumes condemned	1,411
Duplicated exchanged	69
Volumes destroyed on account of contagious diseases	36
Volumes lost	32
Volumes bound	3,111
Postal cards sent for books overdue	4.590
Present number of card-holders	26,200

CIRCULATION.

	Central.	Local, including branch library.	Schools.	Total.
First Quarter	38,546	12.047	3,124	53 717
Second Quarter	32, 05	11,509	3,473	47,687
Third Quarter	25,240	8,658	.....	33,898
Fourth Quarter	29,884	10,593	3,576	44 053
Total	126,375	42,807	10,173	179,355

Average per day (Central library)	414
Average per day (Local stations)	282
Average per day (Schools)	291
Largest issue (Central library), Feb. 24	1,013
Largest issue (Local stations), April 14	273
Largest issue (Schools), March 2	626
Smallest issue (Central library), Jan. 1	154
Smallest issue (Local stations), March 9	55
Teachers' books drawn directly from library	2,747

CLASSIFIED CIRCULATION.

Classes.	Biography.	Current magazines.	Fiction, including juvenile fiction	Foreign literature.	General works.	History.	Literature.	Science and arts.	Travels.	Total.
Central library	3,619	3,508	89,021	2,464	1,367	4,401	10 694	6,770	4,531	126,375
Local stations	658	431	19,404	247	295	513	882	811	654	*23,895
Schools	501	18	6,582	14	209	1,024	525	623	677	10,173
Total	4,778	3,957	115,007	2,725	1,871	5,938	12,101	8,204	5,862	160,443
Per cent	.03	.025	.717	.017	.012	.037	.075	.051	.036	

* The circulation of the East Cambridge branch and of the deposit collections, amounting to 18,912, has not been classified, and was accordingly deducted before computing this table.

SCHOOL DELIVERY.

Name of School.	Agassiz.	Allston.	Ellis.	Harvard.	Morse.	Peabody.	Putnam.	Roberts.	Russell.	Shepard.	Sleeper.	Taylor.	Thorndike.	Washington	Webster.	Wellington	Vacation Schools.	Total.
Books delivered	55	1,094	578	615	255	360	2,119	914	1,004	353	159	374	645	341	168	923	216	10,173

LOCAL DELIVERY.

Stations.....	Whalen.	Hunnewell.	Phillips.	Yerxa.	East Cambridge.	Gove.	Dow.	Prospect Union.	Deposit collections	East Cambridge branch.	Total.
Books delivered.	1,793	9,644	1,097	1,496	1,674	3,021	3,227	1,943	4,912	14,000	42,807

ADDITIONS (INCLUDING REPLACED BOOKS).

Source..... ...	City appropriation.	Citizens' subscription fund.	Cummings fund.	Fay fund.	Gifts.	By exchange.	Total.
Books.....	3,545	42	20	14	628	2	4,251

APPENDIX II

AMOUNTS RECEIVED BY THE LIBRARIAN AND DEPOSITED WITH THE CITY TREASURER.

	Fines.	Catalogues.	Duplicates.	Paper stock, etc.	Total.
December-February	$154 19	$11 40	.....	$3 26	$168 85
March-May	151 37	7 05	$1 00	.....	159 42
June-August	119 64	1 05	3 00	1 59	125 28
September-November	125 15	7 65	.....	1 78	134 58
Total	$550 35	$27 15	$4 00	$6 63	$588 13

CITY APPROPRIATION.

Appropriation		$19,000 00

EXPENDITURES.

Binding	$1,184 49	
Books and periodicals	4,907 91	
Bulletin	355 70	
Carrier	544 71	
Fuel	408 43	
Furniture	266 50	
Incidentals	260 54	
Lighting	972 54	
Local stations	420 00	
Printing, postage, and stationery	482 42	
Repairs	236 06	
Salaries	8,959 32	
		18,998 62
Amount unexpended		$1 38

SPECIAL APPROPRIATION FOR EAST CAMBRIDGE BRANCH LIBRARY.

Appropriation		$1,270 00

EXPENDITURES.

Binding	$40 91	
Books and periodicals	199 30	
Incidentals	28 83	
Lighting	20 80	
Rent	200 00	
Salaries	779 00	
		1,268 84
Amount unexpended		$1 16

FUNDS OF THE TRUSTEES.

Citizens' Subscription Fund.

Balance, December 16, 1899		$90 07
Interest on bonds		220 00
		$310 07

EXPENDITURES.

William R. Bradford	$50 00	
T. T. Fryer	15 25	
Isaac Orr Guild	10 00	
R. Herndon Company	45 00	
Library Art Club	5 00	
Little, Brown & Co.	55 17	
George E. Littlefield	47 60	
Society for Psychical Research	13 75	
		$241 77
Balance on hand, December 17, 1900		$68 30

Cummings Fund.

Balance, December 16, 1899		$41 93
Interest on bond		80 00
		$121 93

EXPENDITURES.

American Architect and Building News Company	$5 50	
Edmund J. Cleveland	15 00	
Little, Brown & Co.	75 40	
Frances C. Sparhawk	6 75	
Bradlee Whidden	5 00	
		$107 65
Balance on hand, December 17, 1900		$14 28

Fay Fund.

Balance, December 16, 1899	$3 42
Gift, credited to Fay fund	18 00
Interest on bond	35 00
	$56 42

EXPENDITURES.

Burrows Brothers Company	$56 00
Balance on hand, December 17, 1900	$0 42

APPENDIX III

GIFTS.

	V.	P.
Abbott Public Library, Marblehead		1
Adams Nervine Asylum, Jamaica Plain		1
Agassiz, Mrs. Elizabeth C.		8
Alexander, Constance G.	3	
Allerton, Samuel W., Chicago, Ill.	1	
American Congregational Association, Boston		1
American Humane Association, Providence, R. I.		1
American-Irish Historical Society, Boston	1	
American Unitarian Association, Boston	3	
Ames, Mrs. James Barr	3	
Ames Free Library, North Easton		1
Amherst College, Amherst		2
Ancient and Honorable Artillery Company, Boston		1
Andover Theological Seminary, Andover		1
Angell, James B., Ann Arbor, Mich.		1
Atkinson, Edward, Brookline		1
Balch, Edwin Swift, Philadelphia, Pa.	1	
Bar Association of the City of Boston		1
Barnard College, New York, N. Y.		1
Bartlett, John	2	
Barton, William E., Oak Park, Ill.	1	
Batchelder, Isabel, Boston	9 maps	22
Bates College, Lewiston, Maine		1
Birmingham (England) Free Libraries		1
Boardman, George Dana		1
Boston College		1
Boston Public Library	3	1
Boston Transit Commission	1	
Boston University		1
Brandon, Edward J., City Clerk, Cambridge	9	
Brockton Public Library		1
Bronson Library, Waterbury, Conn.		3
Brookline Public Library		3
Brooklyn (N. Y.) Library		1
Brooks, Francis A.		1
Brown University, Providence, R. I.		2
Bryn Mawr College, Bryn Mawr, Pa.		1
Cambridge, City of	4	2
Cambridge:—		
Associated Charities		1
Avon Home		1
East End Christian Union		1
Homes for Aged People		2
Old Cambridge Photographic Club		1
Social Union		24
Young Women's Christian Association		2
Carnegie Library, Atlanta, Ga.		1
Carnegie Library, Pittsburgh, Pa.		1
Carpenter, Mrs. Frances A.	1	
Chicago (Ill.) Board of Education	1	
Chicago (Ill.) Public Library		1
Church Missions Publishing Company	1	
Church of Jesus Christ Latter Day Saints, Salt Lake City, Utah	4	

		V.	P.
Cincinnati (Ohio) Public Library			2
Clark, Mrs. Ambrose H.	Bust		
Clark, Susie C.		1	
Clark University, Worcester			2
Cleveland (Ohio) Board of Education			1
Cleveland (Ohio) Public Library			1
Cogswell, Edward R.		1	
Columbia University, New York, N. Y.			3
Concord (N H) Public Library			1
Cossitt Library, Memphis, Tenn.			3
Cuba, Superintendent of Schools, Havana			3
Dall, Mrs Caroline H.		1	
Dana, Elizabeth E		1	
Daniels, William Cooke, Denver, Col.			1
Davis, Andrew MacFarland			2
Davis, William M.			1
Depew, Chauncey M., New York, N. Y.			1
District of Columbia Public Library, Washington			2
Douglass, Mrs. Anna E.		1	
Dover (N. H.) Public Library			2
Dudley, Sanford H.	Map	3	2
Eau Claire (Wis.) Public Library			1
Electric Fireproofing Company		1	
Fairlie, J. A., New York, N. Y.			1
Fall River Public Library			1
Farmer, J. E		1	
Field Columbian Museum, Chicago, Ill.		1	
First Church in Cambridge and Shepard Congregational Society		1	
Fitchburg, City of		2	
Fitz Public Library, Chelsea			2
Fletcher Free Library, Burlington, Vt.			1
Forbes Library, Northampton			1
Fox, Jabez			1
Fullerton, Alexander, New York, N. Y.		1	
Garman, Samuel			1
Gifford, William L. R.		3	
Girard College, Philadelphia, Pa.			1
Goodwin, William Watson		1	
Guatemala, Republic of			1
Guild, Isaac Orr		1	
Hamilton (Canada) Public Library			1
Harvard Medical Alumni Association, Boston			2
Harvard University Library		5	7
Haverhill Public Library		3	2
Higginson, Thomas Wentworth		13	34
Hill, F. Stanhope		1	
Home Science Publishing Company, Boston		2	
Howe, Archibald M.			3
Hunnewell, James L.		1	
Hyde Park Public Library			1
Illinois State Library School, Champaign, Ill.			1
Indian Rights Association, Philadelphia, Pa.			1
Indiana State Library, Indianapolis, Ind.			1
James H. West Company		1	
John Crerar Library, Chicago, Ill.			2
Johns Hopkins University, Baltimore, Md.			1
Lake Forest University, Chicago, Ill.			1
Lake Mohonk (N. Y.) Conference of Friends of the Indians			9
Lake Mohonk (N. Y) Conference on International Arbitration			1
Lancaster Town Library			1
Lawrence Free Public Library			1
Leicester Public Library			1

	V.	P.
Leland Stanford, Jr., University, Palo Alto, Cal.		1
Leyton (England) Public Library		1
Lodge, Henry Cabot. Washington, D. C.		1
Los Angeles (Cal.) Public Library		2
Lowell Textile School		1
Lynn Historical Society		1
Lynn Public Library		1
McCall, Samuel W., Washington, D. C.	2	
MacDonald, J. Angus, New York, N. Y.		1
McKean, Mrs. Anna H.		2
Malden, City of	1	
Malden Public Library		1
Manchester (N. H) City Library		2
Massachusetts, Commonwealth of	12	2
Massachusetts Civil Service Commission	1	1
Massachusetts College of Pharmacy, Boston		1
Massachusetts Institute of Technology, Boston		1
Massachusetts Reform Club, Boston		1
Massachusetts Society of Sons of the American Revolution	1	
Massachusetts Universalist Convention, Springfield		1
Medford Public Library	2	1
Melville, George W., Washington, D. C.		1
Minneapolis (Minn.) Public Library		2
Mount Auburn Cemetery		1
Mount Holyoke College, South Hadley		1
Museum of Comparative Zoölogy	5	
Mutual Life Insurance Company of New York	1	
Neumann Gandia, E , Ponce, Puerto Rico	2	2
Nevins Memorial Library, Methuen		1
New Bedford Free Public Library		2
New Haven (Conn.) Free Public Library		1
New York Civil Service Reform Association		3
New York Public Library	1	
New York State College of Forestry, Ithaca, N. Y.		1
New York State Library, Albany, N. Y.	4	2
Newark (N. J.) Free Public Library		2
Newton Free Library		1
Nichols, Mary P	1	
North Adams Public Library		1
Northampton Public Library		1
Oakland (Cal.) Free Library		1
Oberlin (Ohio) College Library		3
Ohio State University, Columbus, Ohio		2
Palfrey, Sara H.	1	
Parlin Memorial Library, Everett		1
Paterson (N. J.) Free Public Library		1
Peoria (Ill.) Public Library		1
Pettingill & Co., Publishers, Boston	1	
Philadelphia (Pa.) Free Library		1
Plymouth Cordage Company	1	
Portland (Maine) Public Library		1
Pratt Institute Free Library, Brooklyn, N. Y.		1
Prospect Union	9	
Providence (R. I.) Public Library		2
Providence (R. I) Record Commissioners	1	
Public Reservations, Trustees of, Boston		2
Radcliffe College		5
Redwood Library and Athenæum, Newport, R. I.		1
Reynolds Library, Rochester, N. Y.		1
Robbins Library, Arlington		2
Rolfe, William J.	1	
Ross, Lieut. Worth G , Boston	4	1

	V.	P.
Russell, H. S. and F. W.	2	
St. Giles Public Library, London, England		1
St. Louis (Mo.) Mercantile Library		1
Salem Public Library		1
San Francisco (Cal.) Free Public Library		1
Scranton (Pa.) Public Library		1
Seattle (Oregon) Public Library		3
Sherburne, Edward R.		1
Smith College, Northampton		1
Smithsonian Institution, Washington, D. C.	4	
Society for the Propagation of Information about St. Michael's, Azores		1
Society of California Pioneers of New England		1
Somerville Public Library		1
Southbridge Public Library		1
Spalding, Warren F.	1	
Springfield City Library Association		1
Stearns, Frank Preston	3	
Swift, Morrison I., Los Angeles, Cal.		1
Syracuse (N. Y.) Central Library		1
Tabor Academy, Marion		1
Taunton Public Library		1
Thomas Crane Public Library, Quincy		1
Thomson, John, Philadelphia, Pa.		3
Trinity College, Hartford, Conn.		1
Tufts College, Medford		1
Tufts Library, Weymouth		1
Tyler, Charles Edward, New Bedford	1	
United States: —		
Agriculture, Department of	2	5
Civil Service Commission	1	
Education, Bureau of	3	
Geological Survey	3	
Interior, Department of		1
Interstate Commerce Commission	2	
Labor, Department of	2	
Library of Congress	1	5
Navy Department	1	3
Patent Office	15	
War Department		2
United States Commission to Paris Exposition of 1900	1	1
University of California, Berkeley, Cal.	1	1
University of Chicago (Ill.)	1	2
University of Michigan, Ann Arbor, Mich.		2
University of Pennsylvania, Philadelphia, Pa.		2
University of Vermont, Burlington, Vt.		1
University of Wisconsin, Madison, Wis.		5
Vassar College, Poughkeepsie, N. Y.		1
Waitt, Andrew S.	1	
Waller, A.	3	
Watertown Free Public Library		1
Webster, Eugene C., Neponset		1
Wellesley College, Wellesley		1
Wesleyan University, Middletown, Conn.		2
Western Reserve University, Cleveland, Ohio		2
Wiggin, James Bartlett	3	26
Wilcox, E. S., Peoria, Ill.		3
Williams College, Williamstown		3
Wilmington (Del.) Institute		1
Wilson, Mehitable C. C.	1	
Winthrop Public Library		1
Wisconsin State Historical Society, Madison, Wis.		1
Woburn Public Library		1

	V.	P.
Woman's College, Baltimore, Md.		1
Woman's Education Association, Boston		1
Wood, H., Boston	2	
Woodman, Cyrus, Estate of	427	
Woodman, Mary	7	
Wright, Theodore F.	1	
Yale University, New Haven, Conn.	1	1
Young, E. J.	1	

Bulletins, or similar publications, have been received from the following libraries :—

Boston Public Library
Brockton Public Library
Brookline Public Library
Brooklyn (N. Y.) Library
Dover (N. H.) Public Library
Fitchburg Public Library
Hartford (Conn.) Public Library
Helena (Montana) Public Library
Iowa Masonic Library, Cedar Rapids, Iowa.
Lawrence Public Library
Library Association of Portland, Oregon.
Lowell City Library
Madison (Wis.) Free Library
Malden Public Library
Manchester (N. H.) City Library
New Bedford Free Public Library
New Haven (Conn.) Free Public Library
New York Public Library
Osterhout Free Library, Wilkes-Barre, Pa.
Paterson (N. J.) Free Public Library
Pratt Institute, Brooklyn, N. Y.
Providence (R. I.) Libraries
Salem Public Library
San Francisco (Cal.) Free Public Library
Silas Bronson Library, Waterbury, Conn.
Somerville Public Library
Springfield City Library
Taunton Public Library
Tufts Library, Weymouth
Warren County Library, Monmouth, Ill.
Worcester Free Public Library.

APPENDIX IV

LIST OF TRUSTEES.

In 1858 the city of Cambridge acquired the property of the Cambridge Athenæum and bound itself to maintain forever the library of the Athenæum as a public library for the use of the inhabitants of Cambridge. The ordinance establishing the library gave it the name of the Dana Library, in honor of Edmund T. Dana. In 1879 the name was changed to the Cambridge Public Library.

The following list contains the names of all who have served on the board of trustees, together with their terms of service, from the establishment of the first board, in 1858, to the present time: —

Albee, Sumner, 1865-1866
Allen, Frank Augustus, 1877
Barnes, Albert Mallard, 1889-
Bennink, Cornelius Gerrit Henry, 1884-1885
Bigelow, Marshall Train, 1858-1860
Bingham, Edward Allen, 1889-1890
Blodgett, Alvaro, 1868
Bradford, Isaac, 1873-1876
Bullock, Charles, 1883
Carter, George Putnam, 1863
Champlin, Edgar Robert, 1886
Chase, Herbert Augustus, 1892
Cogswell, Edward Russell, 1885-1887
Conlan, John, 1881-1883
Corcoran, John Hubert, 1887
Cushing, Levi L., jr., 1861-1862
Daly, Augustine John, 1894-
Deane, Charles, 1866-1875
Doherty, Henry Aloysius, 1888
Durant, William Bullard, 1881
Durrell, Oliver Heber, 1888-1892
Eliot, Charles William, 1866
Fairbairn, John Robert, 1891-1892
Fairbanks, John Woods, 1882
Folger, George Howland, 1863-1864, 1881-1883
Folsom, Samuel Hilliard, 1864
Fox, Jabez, 1893-
Fox, James Augustus, 1878
Gilmore, Henry Hubbard, 1881, 1884-1891
Gooch, Joshua Goodale, 1872
Goodwin, Hersey Bradford, 1876-1885
Green, James Durell, 1860
Hall, James Morris Whiton, 1880
Harding, Hamlin Rand, 1870-1871, 1873
Higginson, Thomas Wentworth, 1889-
Holmes, Joseph Ames, 1871-1872
Hooker, Anson, 1858-1869
Hooker, Anson Parker, 1870-1873

Houghton, Henry Oscar, 1872
Howe, Moses Giles, 1879-1880
Kelley, Joseph James, 1884-1887
Livermore, George, 1858-1865
McDaniel, Samuel Walton, 1882-1884
McNamee, John Hugh Henry, 1889-1893
March, John Samuel, 1869-1870, 1873-1884
Merrill, Joseph Warren, 1865-1866
Montague, Samuel Leland, 1878-1879, 1881-1896
Nay, Isaac Alfred, 1878-1880
Page, William, 1867-1868
Parmenter, Ezra, 1867
Piper, George Frederick 1873-1877
Piper, William Taggard, 1892-
Raymond, Zebina Lee, 1864
Remick, John, 1858
Richardson, George Carter, 1863
Richardson, James, 1871
Richardson, James Prentiss, 1859-1860
Rolfe, William James, 1895-
Russell, Charles Theodore, 1861-1862
Sargent, John, 1858-1859
Saunders, Charles Hicks, 1868-1869
Sawyer, Jabez Augustus, 1867, 1884-1888
Shepard, Jared, 1861
Smart, Gustavus Adolphus, 1869-1870
Snow, Seymour Belknap, 1876
Sortwell, Alvin Foye, 1888-1894
Taylor, John Bunker, 1874-1877
Tucker, Edward Payson, 1877-1880
Tyler, Joseph Howe, 1862, 1865
Walker, Charles, 1886-1890
Wellington, William Williamson, 1858-1872
Wheeler, Edward Clark, 1891, 1897-
Whitney, William Lambert, 1874-1875.

ANNUAL REPORT OF THE CHIEF ENGINEER OF THE FIRE DEPARTMENT

Chief Engineer's Office, City Hall,
Cambridge, Mass., December, 1900.

To the Honorable, the City Council: —

Gentlemen: — Herewith I have the honor to submit to you the Annual Report of the Fire Department for the fiscal year ending November 30, 1900, being my twenty-second annual report.

It contains a statement showing the condition of the Department; also the number of fires and alarms of fires which have occurred during the year, together with the losses and insurance thereon, a register of its members with the rank of each, the amount of expenditures, and such other information as would require your consideration.

MANUAL FORCE.

On December 1, 1899, seven men were added to the permanent force, one being assigned to each steamer company, and the call force reduced an equal number.

The force now consists of a chief engineer, an assistant chief engineer, a driver for the chief engineer, and one hundred and twenty-one officers and men, divided into twelve companies, viz.: seven steam engine companies, two chemical engine companies, and three ladder companies; fifty-six are permanently employed and sixty-eight are call men.

There is now one vacancy in the call force.

APPARATUS.

On December 6, 1899, Engine No. 6 was returned from the repair shop where it was furnished with a new boiler, the machinery put in perfect order, wheels repaired, and the engine painted.

Early in the year Engines Nos. 4 and 7 were provided with three horse hitches, for use in the winter months during the hard traveling. A new set of wheels was also purchased for Engine No. 3, and a set of wheels and axles for Ladder Truck No. 3; also a pair of wheels for Ladder Truck No. 1.

On November 23, while Engine No. 1 was returning from a fire a leak was discovered in the boiler. On making an examination of its con-

dition it was found necessary to send the engine to the repair shop to have the old boiler replaced with a new one, and have such other repairs made as will put the engine in first-class condition.

The other engines and hose carriages are, with the exception of Hose Carriage No. 4, in good condition.

The ladder carriages, with the exception of No. 2, are in good working condition. Ladder Carriage No. 2 is sadly in need of being repaired and painted, but this work cannot be done as we have no spare truck to use while making the repairs.

I will renew my previous recommendations that a hose wagon be purchased to take the place of Hose Carriage No. 4, which has been in service for over thirty years; also that a ladder truck be purchased as it is very important that we should have a spare one to be used in case of an emergency.

HOSE.

The amount of serviceable two and one-half inch cotton hose now in the service is 13,500 feet. During the year 650 feet was bought to replace that which became unserviceable. There is also 750 feet of one-inch rubber hose and 250 feet of two-inch cotton and linen hose for use on chemical engines.

HORSES.

During the year six horses were bought, one for use by the Assistant Chief Engineer, one for Hose Wagon No. 2, two for Chemical Engine No. 1, and two for Engine No. 5. Four were disposed of because of being unsuitable for service, and one was killed by order of the City Veterinary because of injuries received as the result of an accident. There are now thirty-seven horses in the service, and with few exceptions are well adapted for the work required of them.

HOUSES.

The houses of this department have had such alterations and repairs made upon them during the year, as was thought necessary in order to keep them in proper condition.

The houses in general are in good condition and suitably arranged for the service, with the exception of Ladder House No. 1 which is poorly arranged and inconvenient.

I would again call your attention to the need of better ladder service, in case of fire, in Ward 5 and a part of Ward 1. In order that this protection may be had, a new house would have to be built for the accommodation of a ladder company and I hope the matter will receive consideration the coming year.

APPROPRIATIONS AND EXPENDITURES.

The appropriation for the maintenance of this department for the year ending November 30, was $90,400; the receipts, $100; and expenditures $90,362.64. The unexpended balance was $37.36.

FIRES AND ALARMS.

The number of fires and alarms, from all causes, during the year beginning December 1, 1899, and ending November 30, 1900, was 281. Of this number 174 were bell alarms, and 107 were still alarms. This does not include second, third and general alarms given.

The most notable fires were the following: June 28, the blacksmith shop of the Boston & Maine Railroad Company, located in the rear of Prison Point Street, was burnt. The building, a wooden one, was entirely destroyed, the fire also doing considerable damage to the adjoining machine shop, causing a loss of $28,218. The Boston fire department rendered very valuable assistance at this fire.

The only other fire of importance was that at 491–495 Main Street, on the morning of July 1. This fire, which was of incendiary origin, was started in a stable and soon worked its way into the main structure which was occupied as a hay and grain store, also as a broom manufactory, and from this to the three-story brick building, 483–489, occupied as a bakery and laundry, causing a loss of $28,961.

The total losses, as near as could be ascertained, together with the amount of insurance and the amount of insurance paid, were as follows:—

	Losses.	Insurance.	Insurance Paid.
On Buildings	$41,636 15	$432,600 00	$40,466 15
On Contents	49,510 27	117,376 09	46,072 27
Totals	$91,146 42	$549,976 09	$86,538 42

DISCHARGED.

James H. Skehan, call member of Engine Company No. 7, December 31, because of disability in the loss of his right eye while working at a fire. His name was placed on the pension roll January 1.

DECEASE OF A MEMBER.

Lieutenant George W. Butler, of Chemical Engine Company No. 2, who had been connected with this department for nearly thirty years, died on June 6, after a lingering illness with kidney trouble.

APPOINTMENTS.

Bernard J. Coakley and Herman E. Gutheim were appointed permanent members December 30; Daniel E. Powers, appointed engineman February 1; William J. Atkinson, appointed a call member March 12; Nathaniel W. Bunker, appointed permanent assistant chief engineer March 13; Charles H. Waite and Redmond M. Burke were appointed call lieutenants April 24; Richard J. Doyle and George W. Montgomery were appointed permanent members June 12; William H. Barrow, appointed permanent lieutenant June 30.

ACCIDENTS.

The following named members of this department were injured while in the performance of their duty:—

John J. O'Callahan, thrown from the seat of his engine, and receiving severe injury to his hip, January 5. Off duty fifty-eight days.

Albert F. Sawyer, driver of Hose Wagon No. 2, was fatally injured while exercising his horse on May 10. The horse, upon which he was riding, suddenly turned in front of a moving electric car, the car striking both horse and rider, throwing them to the ground. Mr. Sawyer's injuries were of such a nature as to cause his death a few hours later.

Lieutenant Joseph A. Wood, call member, sprained his hip, May 13. Off duty nine days.

Edward Clark, call member, hand cut with window glass, July 4. Off duty eleven days.

Captain James Cunningham, call member, sprained his knee by the overturning of hose wagon, September 28. Off duty seventeen days.

Charles H. Cutting, call member, sprained leg by the overturning of hose wagon, September 28. Off duty seven days.

John Haley, call member, strains of muscles and bones of foot, by the overturning of hose wagon, September 28. Off duty twenty-four days.

Charles Emerson, call member, injury to hand and leg while working at a fire, September 28.

Thomas F. Drummond, run nail into foot while working at a fire, October 4. Off duty four days.

J. Lewis Howe, strained foot in coming down sliding pole in engine house, in answer to an alarm of fire, October 14. Off duty thirteen days.

CONCLUSION.

In closing this report I desire to tender my sincere gratitude to His Honor, the Mayor, for the interest manifested by him in all matters pertaining to this department.

The officers and members of the fire department will please accept my thanks for their faithful attention to duty, and their promptness in responding to the several calls during the year.

My thanks are also due the Boston fire department for their prompt and very efficient service rendered at the fire in the blacksmith shop of the Boston & Maine Railroad Company, on June 28.

Respectfully submitted,

THOMAS J. CASEY,
Chief Engineer.

APPENDIX

ROLL OF OFFICERS AND MEMBERS

Engineers.

Name.	Rank.	Age.	Residence.
Permanent Force.			
Thomas J. Casey	Chief Engineer	67	168 Lexington Avenue.
Nathaniel W. Bunker	Asst. Chief Engineer	57	276 Portland Street.
Timothy Curran	Chief's Driver	31	182 Lake View Avenue.

Engine Company No. 1.

House, 108 Mt Auburn Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
31	Daniel E. Powers	Engineman	41	108 Mt. Auburn Street.
2	Hiram W. Hooker	Asst. Engineman	61	108 Mt. Auburn Street.
1	Bernard J. Coakley	Driver	25	153 Raymond Street.
28	Daniel E. Shea	"	43	6 DeWolf Street.
4	Thomas F. Drummond	Hoseman	32	3B Brattle Square.
	Call Force.			
27	John L. Jones, Jr.	Captain.	49	209 Green Street.
29	Thomas H. Kneeland	Lieutenant	36	17 Eliot Street.
25	James Jefferson	Hoseman	46	9 Eliot Street.
23	J. Joseph Corcoran	"	40	34 Ash Street.
26	Walter E. Chapman	"	33	27 Athens Place.
74	James W. Irwin	"	45	5 Story Street.
30	John J. Foley.	"	38	1 Hancock Street.

Engine Company No. 2.

House, 384 Massachusetts Avenue,

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
41	William H. Cairns	Engineman	37	105 School Street.
80	John H. McDermott	Asst. Engineman	49	11 Dodge Street.
114	Angus H. McDonald	Driver	30	384 Massachusetts Avenue.
63	George W. Montgomery.	"	40	40½ Baldwin Street.
47	Exurie J. Ouimette	Hoseman	37	11A Jay Street.
	Call Force.			
32	James Cunningham	Captain	58	25 State Street.
33	Arthur C. Day	Lieutenant	64	47 Austin Street.
35	Benjamin D. Foss	Hoseman	64	78 Elm Street.
37	John Haley	"	46	344 Massachusetts Avenue.
88	Charles H. Cutting	"	48	812 Main Street.
40	George F. Donovan	"	31	54 Sidney Street.
107	William H. Hanson	"	33	133 Harvard Street.

Engine Company No. 3.

House, 35 Third Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
7	Hiram Blood	Engineman	69	40 Fifth Street.
62	Charles A. Blair	Asst. Engineman	39	22 Springfield Street.
8	Peter F. McSorley	Driver	41	33 Fourth Street.
49	Patrick J. Hayes	"	38	92 Gore Street.
15	William F. Newman	Hoseman	30	4 Hunting Street.
	Call Force.			
42	Walter Baker	Captain	47	20 Hardwick Street.
48	John F. Brassel	Lieutenant	46	3 Marney Street.
45	Eliot E. Alley	Hoseman	64	73 Thorndike Street.
46	Timothy J. Mahoney	"	53	346 Vine Street.
112	Charles H. Leddy	"	40	20 Hardwick Street.
16	William H. Murray	"	47	8 Sixth Street.

Engine Company No. 4.

House, 2029 Massachusetts Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
10	John E. Ricker	Engineman	56	2029 Massachusetts Avenue.
55	Jeremiah O'Connor	Asst. Engineman	42	2 Olive Place.
19	Albert S. Benson	Driver	58	52 Boylston Street.
11	George E. Muzzey	"	59	5 Blake Street.
57	John T. Henderson	Hoseman	31	128 Reed Street.
	Call Force.			
51	Daniel A. McCaughlin	Captain	43	Rear 5 Russell Street.
53	Redmond M. Burke	Lieutenant	31	Rear 5 Russell Street.
54	George F. Durgin	Hoseman	32	48 Norris Street.
52	Joseph T. Vocell	"	35	12 Bolton Street.
105	William F. Henderson	"	36	74 Rice Street.
50	George L. Vocell	"	31	23 Bolton Street.
56	Joseph A. Henderson	"	26	134 Reed Street.

Engine Company No. 5.

House, Inman Square.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
13	Charles E. Conner	Engineman	49	1337 Cambridge Street.
9	Lorenzo H. Dale	Asst. Engineman	57	104 Otis Street.
3	Charles R Hooker	Driver	56	1411 Cambridge Street.
68	James H. Furfey	"	43	59 Prince Street.
115	Frank McGrath	Hoseman	36	168 Willow Street.
	Call Force.			
59	Francis P. Scanlan	Captain	54	1343 Cambridge Street.
64	William T. King	Lieutenant	44	100½ Hampshire Street.
61	George W. McIntire	Hoseman	46	7 Springfield Street.
67	George P. Bannister	"	40	7 Springfield Street.
66	James H. McGrath	"	44	126 Webster Avenue.
60	George W. Stevens	"	34	1307 Cambridge Street.
104	Charles Barney	"	38	60 Austin Street.

Engine Company No. 6.

House, 176 River Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
98	J. Lewis Howe	Engineman	47	184 River Street.
87	Charles A. Cairns	Asst. Engineman	34	152 River Street.
127	John J. O'Callahan	Driver	31	136½ Green Street.
92	Robert J. Buchanan	"	29	20 Grigg Street.
34	Herman E. Gutheim	Hoseman	24	60 Spring Street.
	Call Force.			
24	John H. Brown	Captain	49	206 River Street.
73	Charles H. Waite	Lieutenant	54	46 Lopez Street.
100	John E. Savage	Hoseman	46	31 Kinnaird Street.
103	Thomas F. Mullin	"	27	308 Western Avenue.
123	Louis Clauss	"	32	72 Allston Street.
106	Mortimer F. Hartney	"	26	12 Lawrence Street.
119	Robert J. Ballantine	"	39	402 Putnam Avenue.

Engine Company No. 7.

House, 350 Main Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
85	Thomas F. O'Connell	Engineman	39	155 Webster Avenue.
36	John McCarthy	Asst. Engineman	47	139 Massachusetts Avenue.
121	John D. Shea	Driver	29	136 Winsor Street.
126	Dennis R. Sullivan	"	29	35 Harvard Street.
110	James P. O'Neill	Hoseman	33	51 Bristol Street.
	Call Force.			
93	George A. Garrity	Captain	39	5 Pioneer Street.
124	Joseph A. Wood	Lieutenant	38	81 Hampshire Street.
109	James E. Bligh	Hoseman	29	142 Willow Street.
108	Thomas A. Montgomery.	"	36	70 Berkshire Street.
125	Edward Clark	"	32	234 Winsor Street.
96	Louis J. Anshelm	"	40	41 Portland Street.
86	William J. Atkinson	"	24	956 Cambridge Street.

Chemical Engine Company No. 1.

House, 5 Western Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
17	Lewis C. Clark	Lieutenant	55	48 Western Avenue.
82	James T. McCabe	Engineman	37	125 Green Street.
99	John H. Dardis	Driver	27	27 Park Street.

Chemical Engine Company No. 2.

House, 167 Lexington Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
58	William H. Barrow	Lieutenant	31	117 Lexington Avenue.
6	Richard J. Doyle	Engineman	26	37 Willard Street.
18	William Haley	Driver	54	133 Lexington Avenue.

Ladder Company No. 1.

House, Eliot Square.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
22	John T. McNamee	Captain	45	94 Winthrop Street.
117	Edward F. Conroy	Lieutenant	29	259 Mt. Auburn Street.
77	Benjamin McArthur	Ladderman	26	4 DeWolf Place.
122	Arthur G. McArthur	"	28	4 DeWolf Place.
75	Charles A. Olsen	Driver	33	9 Bay Street.
	Call Force.			
79	Edward P. Donahue	Ladderman	43	1 Willard Street Court.
72	Joseph E. Burke	"	38	70 Plympton Street.
14	William H. Buchanan	"	32	274 Mt. Auburn Street
70	John W. Jefferson	"	35	9 Gerry Street.
71	Charles P. Cox, Jr.	"	29	70 Magee Street.
120	Frederick Quenandon	"	28	236 Franklin Street.
97	George B. Morse	"	33	23 Boylston Street.

Ladder Company No. 2.

House, 276 Portland Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
43	William F. Newman	Captain	55	66 Winter Street.
83	James M. Casey	Lieutenant	36	775 Cambridge Street.
38	Albert R. Wait	Ladderman	28	934 Cambridge Street.
20	Thomas Mimnaugh	Driver	47	35 Warren Street.
	Call Force.			
90	Albert Smith	Ladderman	46	243 Broadway.
95	Louis J. Stanger	"	46	275 Vine Street.
89	John J. Balfe	"	29	385 Norfolk Street.
111	Jeremiah F. Hayes	"	34	17½ Marney Street.
116	Thomas J. Lane	"	36	35 Warren Street.
113	William G. Johnson	"	39	14 Springfield Street.
81	Henry J. O'Brien	"	24	746 Cambridge Street.
102	Thomas J. Parks	"	24	16 Bristol Street.

Ladder Company No. 3.

House, 394 Massachusetts Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
21	Thomas L. Hunter.....	Captain..... ...	60	407 Massachusetts Avenue.
44	Cutler L. Vose.....	Lieutenant.....	32	494 Massachusetts Avenue.
39	Thomas H. McCourt.....	Tillerman.....	30	62 Columbia Street.
118	William C. Richardson...	Driver.....	32	
	Call Force.			
69	Charles Emerson.....	Ladderman	55	5 Kinnaird Street.
76	Charles A. Sharon.....	"	52	Rear 13 Pine Street.
91	Lincoln E. Wheeler.....	"	56	251 Broadway.
84	William D. Donovan.....	"	27	18 Blanche Street.

FIRES AND ALARMS

From December 1, 1899, to December 1, 1900.

DECEMBER.

Friday, Dec. 1, 11.25 A. M. Still.

No. 28 Otis Street. Occupied by A. B. & E. L. Shaw as furniture manufactory. Cause, accidental automatic alarm.

Monday, Dec. 4, 11.47 A. M. Still.

No. 28 Otis Street. Occupied by A. B. & E. L. Shaw as furniture manufactory. Cause, accidental automatic alarm.

Monday, Dec. 4, 9.35 P. M. Still.

No. 27 Fifth Street. Occupied by several families as dwellings. Cause, soot in chimney afire.

Tuesday, Dec. 5, 4.30 P. M. Still.

No. 253 Sixth Street. Owned by P. F. Rourk. Loss, $10. Insurance, $2,000. Occupied by Thomas Tighe as dwelling. Loss, trifling. Cause, clothes near stove taking fire.

Thursday, Dec. 7, 11.03 A. M. Box 134.

No. 150 Hampshire Street. Owned by T. J. O'Callahan. Loss, $135. Insurance, $1,500. Occupied by T. J. O'Callahan. Loss, $200. Insurance, $2,000. Cause, defective chimney.

Friday, Dec. 8, 8.13 P. M. Box 10.

No. 43 First Street. Occupied by The J. H. Keenan Company as planing mill. No loss. Originated in shaving room. Cause, sparks from boiler furnace.

Tuesday, Dec. 12, 10 A. M. Box 121.

No. 96 Henry Street. Owned and occupied by A. L. Gowey as dwelling. Loss, $200. Insurance, $2,500. Originated on the roof. Cause, sparks from a chimney.

Tuesday, Dec. 12, 11.15 A. M. Box 415.

No. 113 Broadway. Owned and occupied by I. G. Hersey as carpenter and builder. No loss. Originated in some old lumber on the roof. Cause, sparks from a chimney.

Saturday, Dec. 16, 7.20 P. M. Box 37.

No. 26 Upton Street. Owned by H. O. Bright. Loss, $25. No insurance. Occupied by E. B. Mencer as dwelling. Loss, $30. Insurance, $500. Occupied by A. W. Trent as dwelling. Loss, $50. Insurance, $500. Originated in the basement. Cause, supposed by the explosion of a kerosene oil lamp.

Sunday, Dec. 17, 8.55 P. M. Box 39.

No. 167 Magazine Street. Owned and occupied by F. S. Clifford as dwelling, Loss trifling. Cause, lighted candle igniting curtain.

Monday, Dec. 18, 2.37 A. M. Box 31.

No. 725 Cambridge Street. Owned by Moses Susser. Loss, $25. Insurance, $3,000. Occupied by John Bennett as dwelling. Loss, $35. Insurance, $500. Originated in a closet on third floor. Cause, rats and matches.

Monday, Dec. 18, 11.15 A. M. Still.

No. 63 Gorham Street. Occupied as dwelling. Cause, smoke mistaken for fire.

Monday, Dec. 18, 8.30 P. M. Box 152.

No. 1256 Massachusetts Avenue. Owned by John Holmes estate. Loss, $55. Insurance, $5,000. Occupied by G. A. Raymond as dentist. Loss, $140. Insurance, $800. Originated in a closet on first floor. Cause, supposed by spontaneous combustion.

Sunday, Dec. 24, 7.46 P. M. Box 16.

No. 77 Broadway. Occupied by Frederick Sroberg as dwelling. No loss. Cause, candle setting fire to a Christmas tree.

Monday, Dec. 25, 12.44 P. M. Box 25.

No. 498 Massachusetts Avenue. Owned by M. P. Southwick. Loss, $801. Insurance, $28,000. Occupied by H. O. Manning as variety store. Loss, $500. Insurance, $1,700. Originated in the cellar. Cause, unknown.

Monday, Dec. 25, 12.51 P. M. Box 78.

No. 134 Concord Avenue. Owned by E. H. Abbott. Loss, $75. Insurance, $1,700. Occupied by Nathaniel Milligan as dwelling. Loss, $27. Insurance, $500. Originated in a bureau drawer on second floor. Cause, unknown.

Tuesday, Dec. 26, 12.20 P. M. Still.

No. 78 Fifth Street. Owned by A. M. Cook. Loss, $20. Insurance, $4,500. Occupied by several families as dwellings. No loss. Cause, supposed by rats and matches.

Wednesday, Dec. 27, 8.55 A. M. Still.

North Harvard Street, Boston (Brighton District). Occupied as boat house. Engine Company No. 1 and Ladder Company No. 1 rendered assistance.

Wednesday, Dec. 27, 9.30 A. M. Still.

No. 117 Boylston Street. Owned by William Elliott. Loss, $40. Insurance, $400. Occupied by William Elliott as store house. Loss, $50. Insurance, $800 Originated on the roof. Cause, sparks from boat house fire.

Wednesday, Dec. 27, 3.32 P. M. Box 14.

No. 461 Cambridge Street. Owned by J. H. McCormack. Loss, $183. Insurance, $4,000. Occupied by H. A. Dine as variety store. Loss, $102. Insurance, $2,000. Originated in the cellar. Cause, overturning of a lighted lamp.

Wednesday, Dec. 27, 8.27 P. M. Box 415.

No. 212 Sixth Street. Owned by heirs of H. M. Bird. Loss, $5. Insurance, $3,000. Occupied by William Campbell & Son as boiler works. No loss. Cause, supposed by the ignition of oiled waste.

Sunday, Dec. 31, 12.10 A. M. Box 28.

Broadway. Cause, false alarm given by some malicious boy.

Sunday, Dec. 31, 8.19 A. M. Box 23.

No. 174 Auburn Street. Owned by Estate of J. W. Cook. Loss, $300. Insurance, $2,000. Occupied by W. F. Whitten as dwelling. Loss, $293. Insurance, $1,000. Cause, defective furnace pipe.

Sunday, Dec. 31, 10.45 A.M. Still.

No. 290 Massachusetts Avenue. Occupied by Catherine Sumner as dwelling. Loss trifling. Cause, explosion of gasoline stove.

Sunday, Dec. 31, 2.45 P. M. Still.

No. 396 Harvard Street. Occupied by Mrs. A. L. Coolidge as dwelling. No loss. Cause, oil stove taking fire.

Sunday, Dec. 31, 8 45 P. M. Still.

No. 12 Ash Street Place. Occupied by Alice R. Moore as dwelling. Loss, trifling. Originated in floor over furnace. Cause, defective furnace pipe.

JANUARY.

Monday, Jan. 1, 5.11 P. M. Box 37.

No. 40 Cottage Street. Owned and occupied by I. G. Haskins as dwelling. Cause, Mrs. Haskins clothes taking fire from stove. She was painfully burned, otherwise the loss was trifling.

Wednesday, Jan. 3, 7.09 P. M. Box 29.

No. 62 Plymouth Street. Cause, smoke mistaken for fire.

Thursday, Jan. 4, 1.10 P. M. Still.

No. 7 Franklin Street. Occupied by Mrs. Charles George as dwelling. Loss, trifling. Originated in a closet on second floor. Cause, child and matches.

Thursday, Jan. 4, 1.53 P. M. Box 26.

No. 19 Harrison Street. Owned by E. D. Brooks. Loss, $63. Insurance, $4,000. Occupied by Mary Haley as dwelling. Loss, slight. Cause, unknown.

Sunday, Jan. 7, 8.17 P. M. Box 34.

No 120 Elm Street. Owned by Louis Bromberg. Loss, $25. Insurance, $2,600. Occupied by Louis Bromberg as dwelling. Loss, $75. No insurance. Cause, dropping of a lighted lamp.

Sunday, Jan. 7, 8.25 P. M. Still.

No. 5 Union Street. Owned by Leopold Ecker. Loss, $30. Insurance, $1,500. Occupied by Anthony Statz as dwelling. Loss, $40. Insurance, $500. Cause, Christmas tree taking fire.

Wednesday, Jan. 10, 4 P. M Box 137.

No. 152 Putnam Avenue. Owned by N. F. Bechtel. Loss, $525. Insurance, $1,400. Occupied by Yee Lee as laundry. Loss, $200. No insurance. Cause, dropping of a lighted match into paper.

Monday, Jan. 15, 11.54 A. M. Box 46.

No. 156 Hancock Street. Owned by Mrs. Alfred Soule. Loss, $90. Insurance, $4,500. Occupied by F. L. Churchill as dwelling. Loss, $182. Insurance, $1,500. Cause, smoking in bed.

Monday, Jan. 15, 1.46 P. M. Box 24.

No. 9 Erie Street. Owned by R. D. Holt as dwelling. Loss, $10. Insurance, $2,000. Originated in an unoccupied room. Cause, hot coals dropping from stove.

Tuesday, Jan. 16, 5.35, A. M. Box 32.

No. 302 Elm Street. Occupied by George Smith as dwelling Loss, trifling. Cause, overalls hanging near stove taking fire.

Wednesday, Jan. 17, 7.40 A. M. Box 28.

No. 114 Harvard Street. Owned by John McFarlane. Loss trifling. Occupied by J. T. Varney as dwelling. Loss, $25. Insurance, $1,000. Cause, smoking in bed.

Thursday, Jan. 18, 12.21 P. M. Box 54.

College yard. Owned by Harvard College. Loss, $148. Insurance, $83,000. Occupied by Harvard College as Jefferson Laboratory. Loss, $250. No insurance. Cause, short circuiting of electric wires.

Thursday, Jan. 18, 4.54 P. M. Box 36.

No. 9 Pleasant Street Owned by E. E. Spencer. Loss, $50. No insurance. Occupied by E. E. Spencer as stable. Loss, $25. No insurance. Cause, set afire by boys.

Saturday, Jan. 20, 11.35 A. M. Box 62.

No. 14 Ash Street. Owned by L. P. Brown. Loss, $25. Insurance, $2,500. Occupied by F. M. Ferris as dwelling. Loss, $30. Insurance, $1,000. Originated in a lace curtain. Cause, stepping on and igniting a match.

Sunday, Jan. 21, 5 45 P. M. Box 178.

No. 25 Sherman Street. Owned and occupied by D. J. Shine as dwelling. Loss trifling. Cause, child with lighted lamp setting lambrequin afire.

Wednesday, Jan. 24, 6.50 P. M. Still.

No. 11 Green Street. Occupied by John Pavey as dwelling. Loss trifling. Cause, overturning of a lighted lamp.

Thursday, Jan. 25, 12.45 P. M. Still.

No. 538 Main Street. Occupied by Ivers & Pond as piano manufactory. Cause, accidental automatic alarm.

Friday, Jan. 26, 9.55 A. M. Still.

No. 43 First Street. Occupied by The J. H. Keenan Company as planing mill. Cause, accidental automatic alarm.

Friday, Jan. 26, 1.40 P. M. Still.

No. 23 Marion Street. Occupied by John Borges as dwelling. No loss. Cause, soot in chimney afire.

Friday, Jan. 26, 5.16 P. M. Box 39.

No. 18 Tufts Street. Occupied by H. T. Webb as dwelling. Loss trifling. Cause, oil stove taking fire.

Friday, Jan. 26, 7.33 P. M. Box 93.

No. 676 Huron Avenue. Cause, smoke mistaken for fire.

Saturday, Jan. 27, 9.30 A. M. Still.

No. 2072 Massachusetts Avenue. Occupied by O. E. Smith as gents' furnishings. Loss trifling. Cause, lint behind stove taking fire.

Tuesday, Jan. 30, 12.28 A. M. Box 175.

No. 15 Mead Street. Owned by Dr. Bryant. Loss, $125. Insurance, $2,000. Occupied by Lydia McKay as dwelling. Loss, $93. Insurance, $500. Originated in a lounge. Cause, supposed by the dropping of a lighted match.

Wednesday, Jan. 31, 5.25 A. M. Box 9.

No. 31 East Street. Owned by Boston & Maine Railroad Company. Loss trifling. Occupied by Patrick Murphy as dwelling. Loss, $48. Insurance, $500. Originated in a bureau drawer. Cause, unknown.

Wednesday, Jan. 31, 10 23 A M. Box 68.

No. 817 Somerville Avenue. Occupied by W. J. Guiney as dwelling. No loss. Originated in the cellar. Cause, careless use of fire.

FEBRUARY.

Thursday, Feb. 1, 9.11 P. M. Box 29.

No. 90 Webster Avenue. Occupied by David Marshall as dwelling. Loss, $25. Insurance, $700. Cause overturning of a lighted oil lamp.

Friday, Feb. 2, 12.30 A. M. Box 36.

Central Square. Owned by W. S. Sprague. Loss, $150. Insurance, $200. Occupied by W. S. Sprague as lunch wagon. Loss, $15. No insurance. Cause, gasoline stove taking fire.

Saturday, Feb. 3, 4.17 P. M. Box 215.

Spring Street. Cause, false alarm given by a malicious boy.

Tuesday, Feb. 6, 1.13 P. M. Box 42.

No. 3 Somerset Street. Cause, smoke mistaken for fire.

Friday, Feb. 9, 6.12 A. M. Box 9.

No. 86 Cambridge Street. Owned by estate of S. B. Buck as dwelling. No loss. Cause, soot in chimney afire.

Wednesday, Feb. 14, 10.30 P. M. Still.

No. 59 Brattle Street. Occupied by M. M. Allen as dwelling. Loss, trifling. Originated in a hammock. Cause, sparks from pipe.

Monday, Feb. 19, 10.05 P. M. Still.

No. 48 Broadway. Occupied by Emma McCormick as dwelling. Loss, trifling. Cause, overturning of lighted oil lamp.

Wednesday, Feb. 21, 11.15 A. M. Box 157.

No. 67 Hammond Street. Owned by Robert Fawcett. Loss, $50. Insurance, $2,250. Occupied by E. L. Brush as dwelling. Loss, $62. Insurance, $1,000. Originated in a lace curtain. Cause, supposed by stepping on and igniting a match.

Thursday, Feb. 22, 12.40 P. M. Still.

No. 10 Gore Street. Occupied by Richard Tyner & Son as carriage manufactory. No loss. Cause, electric wires.

Friday, Feb. 23, 8 P. M. Box 41.

No. 31 Park Street. Owned by L. S. Shed. Loss, trifling. Occupied by Alexander Dunn as dwelling. Loss, $40. Insurance, $1,000. Originated in a lounge. Cause, sparks from a pipe.

Sunday, Feb. 25, 12.49 A. M. Box 271.

No. 73 Newbury Street. The fire was in Somerville. Engine Companies Nos. 1 and 4 rendered assistance.

Sunday, Feb. 25, 1.08 P. M. Box 26.

No. 375 Main Street. Occupied by C. E. Saunders as pool-room. Loss trifling. Originated in a spittoon filled with sawdust. Cause, lighted cigar stub.

Tuesday, Feb. 27, 1.03 P. M. Box 121.

No. 352 Pearl Street. Occupied by W. R. Enos as dwelling. No loss. Originated in the cellar. Cause, thawing out water pipe.

Tuesday, Feb. 27, 10.20 P. M. Still.

No. 75 Otis Street. Occupied by E. P. Whitney as dwelling. No loss. Cause, soot in chimney afire.

MARCH.

Thursday, March 1, 1.02 P. M. Box 41.

No. 94 Pleasant Street. Occupied by E. A. Burroughs as fish market. Loss, $12. Insurance, $250. Cause, bottle of stove polish on stove exploding.

Sunday, March 4, 6.55 P. M. Still.

No. 11 Green Street. Occupied by G. W. Brown as dwelling. Cause, smoke mistaken for fire.

Sunday, March 4, 7.30 P. M. Still.

Main Street. Electric car afire. Cause, defective motor.

Wednesday, March 7, 8.41 P. M. Box 32.

No. 1156 Cambridge Street. Owned by J. W. Flynn. Loss, $752. Insurance, $3,000. Occupied by J. W. Flynn as dwelling. Loss, $508. Insurance, $1,000. No. 1158, occupied by J. W. Flynn as grocery. Loss, $275. Insurance, $1,200. Originated on second floor. Cause, defective chimney.

Wednesday, March 7, 9.58 P. M. Box 134.

No. 1156 Cambridge Street. Cause, rekindling of fire.

Friday, March 9, 7.07 P. M. Box 71.

No. 43 Tannery Street. Owned and occupied by Mrs. William Muller as dwelling. Loss trifling. Cause, said to have been caused by a burglar.

Sunday, March 11, 2.10 P. M. Box 9.

No. 189 Cambridge Street Owned by J. G. Furguson. Loss, $1,043. Insurance, $8,000. Occupied by J. W. Taylor *et al* as dwelling. Loss, $302. Insurance, $500. Originated on second floor. Cause, lace curtain in contact with hot stove.

Sunday, March 11, 2.32 P. M. Box 9.

Cambridge Street. Cause, false alarm given by a boy who found the fire alarm box open.

Sunday, March 11, 5.27 P. M. Box 26.

No. 79 State Street. Owned by C. E. Smart. Loss, $701. Insurance, $1,000. Occupied by L. W. Brandau & Co. as antique furniture manufactory. Loss, $63. Insurance, $500. Occupied by C. A. Houghton as manufacturer of piano sharps. Loss, $225. Insurance, $300. Occupied by Dixson & Fallis as pattern makers. Loss, $66. Insurance, $400. Originated on second floor. Cause, defective chimney.

Monday, March 12, 11.40 A. M. Still.

No. 44 Prospect Street. Occupied by Hugh Gallagher as bowling alley. Loss, trifling. Originated under the floor in the basement. Cause, unknown.

Monday, March 12, 7.31 P. M. Box 64.

No. 58 Garden Street. Occupied by G. H. Elwell as dwelling. No loss. Cause, soot in chimney afire.

Tuesday, March 13, 11.38 A. M. Box 73.

Rindge Avenue. Cause, grass in cemetery burning.

Saturday, March 17, 7.17 P. M. Still.

No. 193 Mt. Auburn Street. Owned by J. F. O'Brien as dwelling. No loss. Cause, soot in chimney afire.

Wednesday, March 21, 1.20 P. M. Box 15.

Bent Street. Owned by H. K. Libby as pung. Loss, trifling. Cause, set afire by children.

Saturday, March 24, 5.10 P. M. Still.

Foot of Magazine Street. Cause, grass burning.

Monday, March 26, 11.15 A. M. Still.

No. 5 Follen Street. Occupied by W. W. Goodwin as dwelling. No loss. Cause, soot in chimney afire.

Monday, March 26, 12.03 P. M. Box 52.

No. 37 Banks Street. Occupied by J. E. Milliken as stable. No loss. Cause, set afire by boys.

Monday, March 26, 2.31 P. M Box 271.

No. 24 Cameron Street. Owned by Charles Callahan. Loss, $15. Insurance, $3,500. Occupied by Thomas Bowser as dwelling. Loss, $33. Insurance, $500. Originated on second floor. Cause, smoking in bed.

Tuesday, March 27, 9.34 A. M. Box 24.

No. 209 Brookline Street. Owned by Margaret McCorrey. Loss, $20. Insurance, $800. Occupied by J. B. Young as dwelling. Loss, $63. Insurance, $1,000. Originated in the kitchen. Cause, clothes dropping upon hot stove.

Tuesday, March 27, 3.24 P. M. Box 216.

No. 87 Main Street. Occupied by J. J. Horgan as office. No loss. Cause, stove taking fire.

APRIL.

Sunday, April 1, 1.40 A. M. Box 53.

Mt. Auburn Street. Cause, false alarm given by some malicious person.

Sunday, April 1, 7.15 A. M. Still.

No. 889 Main Street. Owned by J. F. Condon as dwelling. Loss, $30. Insurance, $2,000. Originated on the roof. Cause, sparks from a chimney.

Wednesday, April 4, 11.25 A. M. Box 41.

No. 6½ Laurel Street. Owned by Mary Donovan. Loss, $45. Insurance, $800. Occupied by W. L. McArthur as dwelling. Loss, $75. Insurance, $500. Cause, pan of fat on stove taking fire.

Thursday, April 5, 10 48 A. M. Box 84.

Lexington Avenue. Owned by Boston Curling Club as club house. Loss, $404. Insurance, $2,500. Loss on contents slight. Originated in a shed. Cause, unknown.

Thursday, April 5, 11.25 A. M. Still.

No. 64 Willow Street. Occupied by J. C. Croucher as dwelling. No loss. Originated on third floor. Cause, wood in stove oven taking fire.

Friday, April 6, 5.10 P. M. Still.

No. 1361 Cambridge Street. Owned by Tillinghast & Fowle. Loss, $56. Insurance, $3,750. Occupied by Galligher & Baxter as sale and repairs of bicycles. Loss, $250. Insurance, $1,000. Originated in the cellar. Cause, gas jet in contact with bicycle tires.

Saturday, April 7, 4.33 P. M. Box 28.

No. 30 Davis Street. Owned by J. L. Bailey as dwelling. Loss, $5. Insurance, $1,500. Originated on the roof. Cause, sparks from foundry.

Monday, April 9, 2.48 P. M. Box 145.

No. 82½ Kinnaird Street Owned by Hanna Berkeley. Loss, $235. Insurance, $2,700. Occupied by Farrel & Graham as grocery. Loss, $300. Insurance, $2,000. Cause, overturning of a lighted oil lamp.

Monday, April 9, 4.40 P. M. Still.

Deacon Street. Owned by M. L. Smith estate as unoccupied coal-shed. No loss. Cause, set afire by boys.

Monday, April 9, 11.24 P. M. Box 32.

No. 329 Elm Street. Owned by Bridget Conden. Loss, $210. Insurance, $1,300. Occupied by Bridget Conden as dwelling. Loss, $50. Insurance, $500. Originated on second floor. Cause, defective chimney.

Tuesday, April 10, 6.45 P. M. Box 34.

No. 259 Columbia Street. Owned by Butler Wilson as dwelling. Loss, $10. Insurance, $500. Originated on the roof. Cause, sparks from a chimney.

Tuesday, April 10, 9.50 P. M. Still.

No. 10 Dodge Street. Owned by J. A. Holmes estate. No loss. Cause, soot in the chimney afire.

Wednesday, April 11, 3.20 A. M. Still.

Beacon Street. Fire was in Somerville. Engine Company No. 5 responded.

Wednesday, April 11, 9.53 A. M. Box 114.

No. 13 Lambert Street. Owned by Dennis Sullivan. Loss, $140. Insurance, $1,500. Occupied by Edward Toohig as dwelling. Loss, slight. Originated on second floor. Cause, overheated stove.

Wednesday, April 11, 12.48 P. M. Box 8.

No. 40 Spring Street. Owned by C. W. Munroe. Loss, $155. Insurance, $1,000. Occupied by Joaquin Silva as dwelling. Loss, $25. No insurance. Originated in a bed on second floor. Cause, child and matches.

Wednesday, April 11, 3.35 P. M. Box 126.

No. 123 Cherry Street. Owned by Swenson & Anderson. Loss, $25. Insurance, $3,500. Occupied by Alfred Kacpfet as dwelling. Loss, slight. Originated in a lounge on third floor. Cause, child and matches.

Wednesday, April 11, 4.15 P. M. Still.

No. 27 Lee Street. Owned by J. H. Robbins Loss, $250. Insurance, $2,500. Occupied by E. D. Watson as dwelling. Loss, $100. No insurance, originated on second floor. Cause, dropping of a lighted match into basket of waste paper.

Saturday, April 14, 8.53 P. M. Box 126.

No. 108 Columbia Street. Owned by W. J. Marvin. Loss, $50. Insurance, $1,500. Occupied by Mary E. Rowe as dwelling. Loss, $30. No insurance. Originated in basement kitchen. Cause, supposed by explosion of oil lamp.

Sunday, April 15, 2.52 P. M. Box 136.

No. 547 Massachusetts Avenue. Owned by Hanna J. Power. Loss, $112. Insurance, $15,000. Occupied by W. T. Roop, agent, as gents' furnishings. Loss, $50. Insurance, $9,500 Originated in an awning. Cause, dropping of a lighted match from an upper window.

Wednesday, April 18, 8.17 P. M. Box 34.

No. 18 Union Street. Owned by Charles Tower. Loss, $200. Insurance, $1,000. Occupied by Charles Tower as dwelling. Loss, $40. Insurance, $1,000. Originated on second floor. Cause, dropping of a lighted match into clothing.

Friday, April 20, 12.14 P. M. Box 17.

No. 54 Hastings Street. Owned by Nathaniel Springfield. Loss, $20. Insurance, $2,000. Occupied by Newell Chester as dwelling. Loss, $100. No insurance. Originated in a trunk in a bedroom. Cause, unknown.

Sunday, April 22, 3.35 P. M. Still.

Ninth Street. Freight yard, Boston & Albany Railroad. Loss, slight. Originated in pile of sleepers. Cause, sparks.

Tuesday, April 24, 12.08 P. M. Box 36.

Central Square. Owned by W. S. Sprague. Loss, $244. Insurance, $280. Occupied by W. S. Sprague as lunch-wagon. Loss, $20. No insurance. Cause, gasoline stove taking fire.

Wednesday, April 25, 3.40 P. M. Still.

No. 8 Gilmore Street. Occupied by Patrick Suter as dwelling. No loss. Cause, soot in chimney afire.

Friday, April 27, 8.13 A. M. Box 71.

No. 41 Washburn Avenue. Occupied by T. J. Gallagher as dwelling. Loss trifling. Originated in clothing on third floor. Cause, child and matches.

Sunday, April 29, 5.36 P. M. Box 15.

No. 155 Fifth Street. Owned by Mary Hinds. Loss, $10. Insurance, $2,500. Occupied by George Vane as dwelling. Loss, $30. No insurance. Cause, dropping of a lighted match into upholstered chair.

MAY.

Wednesday, May 2, 3.58 P. M. Box 271.

No. 2418 Massachusetts Avenue. Occupied by A. S. Lohnes & Co. as blacksmiths. Loss trifling. Originated on the roof. Cause, sparks from fire used in setting tires.

Saturday, May 5, 6.06 P. M. Box 16.

No. 1 Pelham Street. Owned by Mary L. Feeney as dwelling. Loss, $75. Insurance, $1,500. Originated on the roof. Cause, sparks from foundry chimney.

Sunday, May 6, 7.45 P. M. Box 59.

No. 1 Holyoke Street. Occupied as dormitories. No loss. Cause, soot in chimney afire.

Sunday, May 13, 9.50 P. M. Box 121.

No. 533 Putnam Avenue. Cause, explosion of an oil lamp in lantern on outside of building.

Monday, May 14, 7.45 P. M. Box 178.

Sherman Street. Could find no cause for the alarm.

Tuesday, May 15, 3.30 P. M. Still.

Harvard Bridge, planking afire. Cause, electric wires. Loss slight.

Tuesday, May 15, 9.50 P. M. Still.

No. 83 Dunster Street. Occupied by Anthony Breslin as dwelling. Loss slight. Originated in a closet. Cause, unknown.

Friday, May 18, 7.20 A. M. Still.

No. 2254 Massachusetts Avenue. Occupied by S. F. Woodbridge as dwelling. No loss. Cause, soot in chimney afire.

Wednesday, May 23, 8.52 P. M. Box 131.

No. 21 Warren Street. Occupied by Daniel Maloney as dwelling. Loss trifling. Cause, overturning of lighted oil lamp.

Thursday, May 24, 1.19 P. M. Box 26.

No. 708 Main Street. Owned by Allen & Endicott Corporation as boiler house. Loss, $15. Insurance, $500. Originated in shavings. Cause, sparks from furnace.

Saturday, May 26, 5.50 A. M. Still.

No. 57 Orchard Street. Occupied by A. F. Mentzer as dwelling. Loss trifling. Originated in the cellar. Cause, hot ashes in barrel.

Monday, May 28, 1.57 P. M. Box 26.

No. 695 Main Street. Occupied by C. H. Cutting as fish market. No loss. Originated in barrel staves. Cause, sparks from lobster boiler.

JUNE.

Friday, June 1, 12.25 P. M. Still.

No. 49 State Street. Owned by I. S. Pear as storehouse. Loss, $20. No insurance. Originated on the roof. Cause, sparks from steam road-roller.

Friday, June 1, 3.18 P. M. Box 12.

No. 183 Bridge Street. Cause, smoke mistaken for fire.

Friday, June 1, 7 16 P. M. Box 26.

No. 713 Main Street. Occupied by Russell & Scott as dry goods. Loss, $56. Insurance, $2,700. Cause, gas lighter in contact with goods in window.

Saturday, June 2, 2.30 P. M. Still.

Charles River Park fence. Cause, sparks from burning rubbish on dump.

Monday, June 4, 1.30 P. M. Box 31.

No. 64 Porter Street. Owned by Mary Greeley. Loss, $15. Insurance, $3,000 Occupied by William Murphy as dwelling. Loss, $10. No insurance. Cause, defective chimney.

Tuesday, June 5, 8.49 A. M. Box 178.

Garden Street. Owned by E. A. Foster as unoccupied building. Loss, $163. Insurance, $800. Cause, incendiary.

Tuesday, June 5, 9.36 P. M. Box 45.

No. 371 Franklin Street. Owned by Dennis Haley as dwelling. Loss trifling. Originated under stairs on outside of building. Cause, unknown.

Thursday, June 7, 8.10 P. M. Still.

Albany Street. Cause, burning rubbish on dump.

Sunday, June 10, 6 11 P. M. Box 215.

Ninth Street. Freight yard. Owned and occupied by Boston & Albany Railroad Company as car of hay. Loss on car, $50. Insurance, $50. Loss on hay, $125. Insurance, $125. Cause, set afire by boys.

Sunday, June 10, 10.17 P. M. Box 216.

No. 246 First Street. Occupied by The Barber Asphalt Company as storage of naphtha, etc. Loss, $40. No insurance. Cause, ignation of naphtha fumes from lighted lantern.

Monday, June 11, 4 38 P. M. Box 28.

No. 50 Burleigh Street. Cause, rubbish burning in yard of Curtis Davis Soap Manufactory.

Tuesday, June 12, 9.32 A. M. Box 9.

No, 32 East Street. Occupied by G. C. Emerson as kindling wood. Loss trifling. Originated on the roof. Cause, sparks from chimney.

Friday, June 15, 8.30 A. M. Still.

No. 538 Main Street. Ivers & Pond Piano Manufactory. Cause, accidental automatic alarm.

Sunday, June 17, 12.54 P. M. Box 51.

No. 39 Ellery Street. Occupied by M. J. Pierce as dwelling. Loss slight. Originated in a closet on third floor. Cause, child and matches.

Sunday, June 17, 3.10. P. M. Box 68.

No. 815 Somerville Avenue. Rubbish in vacant lot burning. Cause, sparks.

Monday, June 18, 2.49 P. M. Box 114.

No. 143 Gore Street. Owned by J. P. Squire estate as dwelling. Loss, $15. Insurance, $350. Originated on the roof. Cause, fire-crackers.

Monday, June 18, 3.18 P M. Box 34.

No. 1 Union Street. Owned by Michael Duffy as dwelling. Loss, $10. Insurance, $800. Originated on the roof. Cause, fire-crackers.

Monday, June 18, 4.03 P. M. Box 26.

No. 14 Moore Street. Owned by E. D. Brooks as dwelling. Loss slight. Originated in a platform. Cause, fire-crackers.

Monday, June 18, 4.45 P. M. Box 13.

No. 25 Fourth Street. Owned by A. W. Blake as dwelling. Loss slight. Originated on the roof. Cause, sparks from chimney.

Monday, June 18, 5.50 P. M. Still.

No. 441 Main Street. Owned by Hycent Purcell as cement manufactory. Loss trifling. Originated in rubbish on outside of building. Cause, fire-crackers.

Saturday, June 23, 7.08 P. M. Box 137.

No. 271 Western Avenue Owned by C. B. Childs as dwelling. Loss, $47. Insurance, $1,500. Unoccupied. Originated in a partition in attic. Cause, mice and matches.

Sunday, June 24, 9 57. P. M. Still.

No. 97 Lakeview Avenue. Occupied by E. S. Chapin as dwelling. Loss trifling. Originated in bedroom on second floor. Cause, gas jet igniting curtain.

Sunday, June 24, 10.50 P. M. Box 53.

No. 76 Plympton Street. Occupied by William Flynn as dwelling. No loss. Cause, overturning of a lighted oil lamp.

Monday, June 25, 7 28 A M. Box 139.

No. 225 Allston Street. Owned by J. S Chipman as dwelling. Loss, $15. Insurance, $2,500. Originated on the roof. Cause, sparks from chimney.

Monday, June 25, 2.15. P. M. Still.

No. 538 Main Street. Ivers & Pond Piano Manufactory. Cause, accidental automatic alarm.

Monday, June 25, 6.02 P. M. Box 234.

No. 249 Prospect Street. Owned by John Shuler. Loss, $75. Insurance, $3,000. Occupied by Peter Norsell as dwelling. Loss slight. Cause, oil stove taking fire.

Tuesday, June 26, 9.21 A. M. Box 9.

No. 34 Cambridge Street. Owned by I. G. Felt. Loss, $10. Insurance, $400. Occupied by John Begman as carriage painter. Loss, $17. Insurance, $800. Originated on the roof. Cause, sparks from chimney.

Thursday, June 28, 6.45 P. M. Box 7.

Rear Prison Point Street. Owned by Boston & Maine Railroad Company. Loss, $6,200. Insurance, $21,000. Occupied by Boston & Maine Railroad Company as blacksmith and machine shops. Loss, $22,018. Insurance, $22,018. Originated in the blacksmith shop. Cause, unknown.

Friday, June 29, 2.02 P. M. Box 72.

No. 28 Reed Street. Owned by Edward Gilman. Loss, $15. Insurance, $2,500. Occupied by W. F. Bowler as dwelling Loss, $29. Insurance, $500. Cause, oil stove taking fire.

Friday, June 29, 4.44 P. M. Box 134.

No. 1 Murdock Street. Occupied by Susan Ridley as dwelling. Loss, $25. No insurance. Originated in a closet on second floor. Cause, unknown.

Saturday, June 30, 3.56 A. M. Still.

No. 7 Story Street. Owned by H. B. Durant. Loss, $50. Insurance, $8,300. Occupied by Rebecca L Magahy as dwelling. Loss trifling. Originated in wood box behind stove on third floor. Cause, unknown.

Saturday, June 30, 5 55 A. M. Box 72.

No. 206 Rindge Avenue. Owned by Martin Toye. Loss, $295. Insurance, $800. Occupied by Martin Toye as dwelling. Loss, $60. Insurance, $500. Originated in the cellar. Cause, hot ashes in barrel.

Saturday, June 30, 4.31 P. M. Box 16.

No. 1 Pelham Street. Owned by Mary L. Feeney as dwelling. Loss, $125. Insurance, $1,500. Originated on the roof. Cause, sparks from foundry.

JULY.

Sunday, July 1, 1.41, 1.49, 1.55, 2.03 A. M. Box 28.

Nos. 491-495 Main Street. Owned by B. F. Rogers, *et als.* Loss, $4,000. Insurance, $4,000. Occupied by H. F. Sanborn as hay and grain. Loss, $1,800. Occupied by Reuben Mickens as stable. Loss, $1,000. No insurance. Occupied by New Broom Company as broom manufacturers. Loss, $1,474. Insurance, $1,500. Occupied by Donald Jameson. Loss, $125. No insurance Nos. 483 to 489 Main Street. Owned by O. G. Petterson. Loss, $12,512. Insurance, $15,000. Occupied by O. G. Petterson as bakery. Loss, $4,050. Insurance, $4,500. Occupied by F. S. Boyd as laundry. Loss, $2,500. Insurance. $2,500. Rear No. 489 Main Street. Owned by O. G Petterson. Loss, $1,000. No insurance Occupied by O. G. Petterson as stable. Loss, $500. Insurance, $500. Originated in Mickens' stable. Cause, incendiary.

Sunday, July 1, 6.20 P. M. Still.

No. 32 Sidney Street. Owned by A. C. Lamson as fence. Loss slight. Cause, set afire by boys.

Monday, July 2, 4.29 P. M. Box 17.

Nos. 491–495 Main Street. Cause, rekindling of fire. Alarm needless

Tuesday, July 3, 5.15 P. M. Still.

No. 419 Main Street. Owned by Barney Welsh as fence. Loss slight. Cause, hot ashes in barrel.

Tuesday, July 3, 8.47 P. M. Box 58.

No. 9 Waterhouse Street. Owned by J. P. Cooper as dwelling. Loss trifling. Originated on the roof. Cause, fireworks.

Tuesday, July 3, 9.30 P. M. Still.

No 5 Worcester Street. Owned by L. B. Grover as dwelling. Loss trifling. Originated on the roof. Cause, fireworks.

Wednesday, July 4, 4.30 A. M. Still.

No. 196 River Street. Owned by W. E. Fife as store and dwelling. Loss, $13. Insurance, $1,600. Originated on outside of building. Cause, fireworks.

Wednesday, July 4, 9.55 A. M. Box 34.

No. 4 Union Place. Occupied by Maria Gregory as dwelling. No loss. Originated in a closet. Cause, unknown.

Wednesday, July 4, 1.16 P. M. Box 27.

No. 157 Harvard Street Owned by G. H. Ricker. Loss, $25. Insurance, $1,500. Occupied by E. A. Horan as provisions. Loss, $25. Insurance, $1,000. Originated in rear of store. Cause, fire-crackers.

Wednesday, July 4, 1.57 P. M. Box 134.

No. 352 Norfolk Street. Owned by Mary Mahan as dwelling. Loss, $20. Insurance, $3,000. Originated on the roof. Cause, fire-crackers.

Wednesday, July 4, 3.45 P. M. Still.

No. 46 Brookline Street. Owned by Mrs. M. A. Sutherland as dwelling. Loss trifling. Originated on the roof. Cause, fire-crackers.

Wednesday, July 4, 4 22 P. M. Box 42.

No. 3 Somerset Street. Owned by S. N. Sawin. Loss, $89. Insurance, $2,500. Occupied by Amanda Ragnel as dwelling. Loss, $92. Insurance, $700. Cause, clothes drying near stove taking fire.

Wednesday, July 4, 4.31 P. M. Box 153.

No. 8 Grant Street. Owned by William O'Donnell as stable. Loss slight. Originated on the roof. Cause, fire-crackers.

Wednesday, July 4, 5.38 P. M. Box 137.

No. 28 Jay Street. Owned by L. F. Baldwin. Loss, $14. Insurance, $1,600. Occupied by Hardana White as dwelling. Loss, $10. Insurance, $800. Originated in a curtain. Cause, fire-crackers.

Wednesday, July 4, 6.30 P. M. Still.

Elm Street. Cause, bonfire in the street.

Wednesday, July 4, 8.04 P. M. Box 145.

No. 514 Franklin Street. Owned by Mary Moriarty as dwelling. Loss trifling. Originated on the roof. Cause, fireworks.

Wednesday, July 4, 8.30 P. M. Still.

No. 28 Berkshire Street. Owned by F. J. Coulter as dwelling. Loss slight. Originated on the roof. Cause, fireworks.

Wednesday, July 4, 8.44 P. M. Box 14.

No. 128 Otis Street. Owned by G. R. Brine as dwelling. Loss slight. Originated on the roof. Cause, fireworks.

Wednesday, July 4, 8.47 P. M. Box 49.

Nos. 21–23 Hovey Avenue. Owned by Justin Ash. Loss, $560. Insurance, $2,700. Occupied by Justin Ash as dwelling. Loss, $296. Insurance, $700. Occupied by W. L. Johnson as dwelling. Loss, $40. Insurance, $700. Originated on the roof. Cause, fireworks.

Wednesday, July 4, 8.53 P. M. Box 36.

No. 248 Franklin Street. Owned by George Mason. Loss, $50. Insurance, $5,000. Occupied by L. C. Berry as dwelling Loss, $30. No insurance. Originated in a curtain. Cause, sparks entering an open window.

Wednesday, July 4, 8.55 P. M. Box 148.

Nos. 21–23 Hovey Avenue. Alarm had previously been given from Box 49.

Wednesday, July 4, 9 P. M. Still.

No. 64 Boylston Street. Occupied by John Hillis as dwelling. Loss, $56. Insurance, $1,000. Originated in two different rooms on second floor. Cause, supposed of incendiary origin.

Wednesday, July 4, 10.18 P. M. Box 126.

No. 72 Cherry Street. Owned by S. M. T. Steinman as dwelling. Loss trifling. Originated on the roof. Cause, fireworks.

Wednesday, July 4, 10.47 P. M. Box 52.

No. 1039 Massachusetts Avenue. Owned by A. W. Strauss as dwelling. Loss trifling. Originated in an awning. Cause, fireworks

Wednesday, July 4, 11.10 P. M. Still.

No. 615 Massachusetts Avenue. Owned by Douglass estate. No loss. Originated on the roof. Cause, fireworks.

Friday, July 6, 10 P. M. Still.

No. 19 Boylston Street. Owned by F. W. Gregory. Loss, $25. Insurance, $1,500. Occupied by J. W. Morse as lunch-room. Loss, $20. No insurance. Cause, gasoline stove taking fire.

Saturday, July 7, 7.42 A. M. Box 35.

No 1 Lamson Place. Owned by Lamson heirs. Loss, $45. Insurance, $2,000. Occupied by David Leahy as dwelling. Loss, $30. No insurance. Originated in a curtain. Cause, supposed by sparks entering an open window.

Monday, July 9, 7.14 P. M. Still.

East Street. Cause, burning rubbish.

Tuesday, July 10, 2.15 P. M. Still.

Osborn Street. Originated on outside of building in sawdust. No loss. Cause, sparks from chimney.

Tuesday, July 10, 4.15 P. M. Box 271.

Camp Street. Occupied by Columbia Jewelry Company. Cause, bursting of a fly-wheel. There was no fire.

Friday, July 13, 5.05 P. M. Still.

No. 248 Hampshire Street. Occupied by A. T. Ramsey as dwelling. Loss trifling. Cause, table cloth taking fire from oil stove.

Friday, July 13, 7.25 P. M. Still.

No. 35 Gore Street. Occupied by Henry Robinson as dwelling. No loss. Cause, paper in coal hod afire.

Saturday, July 14, 1.10 P. M. Box 26.

Rear 70 State Street. Owned by Blacker & Shephard as dry house. Loss, slight. Originated on the roof. Cause, sparks.

Monday, July 16, 7.50 P. M. Box 9.

No. 150 Cambridge Street. Owned by S. E. Buck. Loss, $62. Insurance, $4,000. Occupied by Jacob Schwartz as boot and shoe maker. Loss, $90. Insurance, $500. Cause, explosion of kerosene oil lamp.

Tuesday, July 17, 9.40 P. M. Box 26.

No. 24 Clark Street. Occupied by Daniel Murphy as dwelling. No loss. Originated in wood box near stove. Cause, unknown.

Thursday, July 19, 1.44 P. M. Box 418.

No. 145 Broadway. Owned and occupied by Sylvester Tower as piano action manufactory. No loss. Originated in boiler-room in shavings. Cause, sparks from furnace.

Thursday, July 19, 6.51 P. M. Box 71.

No. 41 Washburn Avenue. Occupied by T. J. Gallagher as dwelling. Loss, slight. Originated in a coat in the attic. Cause, child and matches.

Saturday, July 21, 6.15 P. M. Still.

Albany Street. Cause, rubbish burning on dump.

Monday, July 23, 2.53 P. M. Box 42.

No. 22 Somerset Street. Owned by J. G. Smith. Loss, $200. Insurance, $200. Occupied by J. E. Morse as stable. Loss, $300. Insurance, $300. No. 24½. Owned by John McDonald. Loss, $367. Insurance, $900. Occupied by Charles Stafford as dwelling. No loss. Originated on outside of stable. Cause, set afire by boys.

Monday, July 23, 11.15 P. M. Still.

Irving Street. Cause, brush burning.

Wednesday, July 25, 10 A. M. Still.

Fire in Arlington Baptist Church. Assistance called for. Engine Company No. 4 responded.

Thursday, July 26, 6.35 P. M Box 178.

No. 290 Walden Street. Owned by Lussier & Bonin. Loss, $821. Insurance, $2,000. Occupied by Lussier & Bonin as wagon builders. Loss, $782. Insurance, $1,200. Originated in wood working shop. Cause, unknown.

Friday, July 27, 3.45 P. M. Box 29.

No. 199 Portland Street. Owned by Joseph Kline. Loss, $123. Insurance, $2,000. Occupied by William Boone as dwelling. Loss, $15. No insurance. Cause, table cloth taking fire from stove.

Sunday, July 29, 2.40 P. M. Still.

Harvard Bridge. Planking afire. Cause, electric wires.

AUGUST.

Wednesday, Aug. 1, 8.55 P. M. Box 23.

No. 40 Pearl Street. Owned by Brewster estate. Loss, $165. Insurance, $4,000. Occupied by Anna Cruse as dwelling. Loss, $75. No insurance. Cause, kerosene oil lamp taking fire.

Thursday, Aug. 2, 1.35 P. M. Still.

Rear Concord Avenue. Owned by J. F. O'Brien as pile of manure. Loss slight. Cause, unknown.

Thursday, Aug. 2, 8.10 P. M. Still.

Portland Street. Cause, rubbish burning on dump.

Friday, Aug 3, 11.30 A. M. Still.

No. 20 Thorndike Street. Occupied by H. M. Sawyer & Son as oil clothes manufactory. Loss, $467. Insurance, $467. Originated in drying oven. Cause, unknown.

Friday, Aug 3, 5 P. M Still.

No. 92 Broadway. Occupied by Broadway Iron Foundry as storehouse. Loss slight. Originated on the roof. Cause, sparks.

Saturday, Aug. 4, 4.48 P. M. Box 52.

No. 37 Banks Street. Occupied by J. E. Milliken as stable. No loss. Cause, set afire by boys.

Saturday, Aug. 4, 6.18 P. M. Box 31.

No. 65 Porter Street. Owned by John Lewenberg. Loss, $384. Insurance, $1,170. Occupied by Agnes McLaughlin as dwelling. Loss slight. Originated in the attic. Cause, children and matches.

Monday, Aug. 6, 2.53 P. M. Still.

No. 538 Main Street. Ivers & Pond Piano Manufactory. Cause, accidental automatic alarm.

Thursday, Aug. 9, 8.34 P. M. Box 68.

No. 7 Roseland Street. Occupied by J. A. Williams as dwelling. Loss trifling. Cause, curtain in contact with gas jet.

Friday, Aug. 10, 10 28 A. M. Still.

Longfellow Park. Cause, grass afire.

Friday, Aug 10, 3.25 P. M. Still.

Harvard Bridge. Planking afire. Cause, electric wires.

Saturday, Aug. 11, 2.45 P. M. Still.

Harvard Bridge. Sweepings on bridge afire.

Monday, Aug. 13, 3.45 P. M. Still.

No. 53 Columbia Street. Owned by J. R. Murphy. Loss, $50. Insurance, $3,750. Occupied by James Mains as dwelling. Loss trifling. Cause, smoking in bed.

Tuesday, Aug. 14, 10.51 A. M. Box 131.

No. 11 Marion Street. Cause, smoke mistaken for fire.

Tuesday, Aug. 14, 11.20 P. M. Still.

No. 40 Green Street. National Biscuit Company's bakery. Cause, accidental automatic alarm.

Wednesday, Aug. 15, 1.50 P. M. Still.

No. 16 Winter Street. Cause, smoke mistaken for fire.

Wednesday, Aug. 15, 7 P. M. Box 131.

No. 664 Cambridge Street. Occupied by Jeremiah Lynch as dwelling. No loss. Cause, rags burning.

Saturday, Aug. 18, 9.40 A. M. Still.

No. 130 Washington Street. Cause, fumigating the building. The smoke was mistaken for fire.

Sunday, Aug. 19, 4.34 P. M. Box 73.

No. 173 Sherman Street. Owned by Elizabeth Martell as unoccupied stable. Loss, $35. Insurance, $400. Cause, set afire by boys.

Monday, Aug. 20, 6 54 P. M. Box 74.

No. 98 Sherman Street. Owned by John Gerry. Loss, $50. No insurance. Occupied by P. J. Lambert as paint shop. Loss, $164. Insurance, $200. Cause, unknown.

Tuesday, Aug. 21, 6.35 P. M. Box 121.

No. 296 Brookline Street. Occupied by J. M. Brennan as dwelling. Loss, trifling. Cause, ignition of oiled rags.

Wednesday, Aug 22, 11.50 P. M. Still.

Ninth Street. Freight yard, Boston & Albany Railroad. Cause, car of coke afire.

Friday, Aug. 24, 11 A. M. Box 68.

No. 56 Frost Street. Owned by M. E. Bragdon *et al.* Loss, $260. Insurance, $5,000. Occupied by E. M. Lewis as dwelling. Loss, $780. Insurance, $1,300. Originated on third floor. Cause, lighted cigarette igniting paper on a table.

Sunday, Aug. 26, 11.15 A. M. Still.

No. 1 Thorndike Street. Occupied by The J. H. Keenan Company as planing mill. Cause, accidental automatic alarm.

Monday, Aug. 27, 8.37 A. M. Box 46.

No. 896 Massachusetts Avenue. Owned by D. W. Hyde. Loss, $10. Insurance, $3,000. Occupied by G. B. Morse as dwelling. Loss, $25. No insurance. Cause, ignition of naphtha.

Monday, Aug. 27, 12.24 P. M. Box 137.

No. 19 Howard Street. Occupied by Henry Drown as dwelling. Loss trifling. Cause, kerosene oil stove taking fire.

Thursday, Aug. 30, 7.35 P. M. Box 115.

No. 265 Third Street. Geo. F. Blake Manufacturing Company. No loss. Originated in the yard. Cause, ignition of oiled waste.

SEPTEMBER.

Sunday, Sept. 2, 11.24 P. M. Box 28.

No. 73 Harvard Street. Owned by Anna Fay. Loss trifling. Occupied by Charles Porter as dwelling. Loss, $36. Insurance, $500. Cause, lighted match in contact with curtain.

Monday, Sept. 3, 9.04 P. M. Box 34.

No. 53 Market Street. Owned by John McFarland. Loss, $60. Insurance, $3,000. Occupied by G. H. Tessier as dwelling. Loss, $20. No insurance. Cause, overturning of a lighted oil lamp.

Tuesday, Sept. 4, 2.42 P. M. Box 14.

No. 397 Cambridge Street. Owned by Rosa Vignoni. Loss, $177. Insurance, $3,000. Occupied by Rosa Vignoni as dwelling. Loss, $268. Insurance, $400. Originated in a basement kitchen. Cause, unknown.

Tuesday, Sept. 4, 3.21 P. M. Box 14.

No. 397 Cambridge Street. Cause, rekindling of fire.

Tuesday, Sept. 4, 4 20 P. M. Still.

No. 397 Cambridge Street. Cause, rekindling of fire.

Tuesday, Sept. 4, 4.58 P. M. Box 13.

No. 397 Cambridge Street. Cause, rekindling of fire.

Tuesday, Sept. 4, 9.25 P. M. Box 14.

No. 397 Cambridge Street. Cause, there was some suspicion as to the real cause of the above fires.

Wednesday, Sept. 5, 4 14 A. M. Box 215.

No. 87 Sixth Street. Occupied as dwelling. Cause, smoke mistaken for fire.

Wednesday, Sept. 5, 11.30 P. M. Automatic Alarm.

No 20 Thorndike Street. Occupied by H. M. Sawyer & Son as oil clothes manufactory. No loss. Originated in shavings in boiler-room. Cause, sparks from furnace.

Wednesday, Sept. 5, 12.10 P. M. Still.

No. 355 Massachusetts Avenue. Cause, fence afire.

Saturday, Sept. 8, 7.30 P. M. Still.

No. 1269 Cambridge Street. Owned by McCloskey & Harty. Loss, $60. Insurance, $3,000. Occupied by D. H. Blaisdell as dwelling. Loss, $50. No insurance. Cause, dropping of a hanging oil lamp.

Wednesday, Sept. 12, 1.30 P. M. Still.

No. 1626 Massachusetts Avenue. Occupied by H. H. Cobb as dwelling. No loss. Cause, soot in chimney afire.

Saturday, Sept. 15, 6.40 P. M. Still.

Sidney Street. Cause, rubbish burning on dump.

Sunday, Sept. 16, 2.22 P. M. Box 27.

Broadway. Tree afire. Cause, electric wires. Alarm needless.

Tuesday, Sept. 18, 4.31 P. M. Box 12.

No. 198 Bridge Street. Occupied by Sarah Wallace as dwelling. No loss. Originated in rags in the attic. Cause, unknown.

Friday, Sept. 21, 7.37 P. M. Still.

Pacific Street. Cause, rubbish burning on dump.

Friday, Sept. 21, 10.50 P. M. Still.

No. 538 Main Street. Ivers & Pond Piano Manufactory. Cause, accidental automatic alarm.

Saturday, Sept. 22, 1.41 A. M. Box 36.

No. 375 Green Street. Owned by Thwing heirs. Loss, $58. Insurance, $500. Occupied by A. W. Large as carpenter shop. Loss, $150. Insurance, $300. Cause, supposed by the ignition of oiled rags.

Saturday, Sept. 22, 10 50 A. M. Still.

Nos. 242-244 First Street. Occupied by Coleman Bros. as coal and wood wharf. Loss trifling. Originated in pile of soft coal. Cause, spontaneous combustion.

Friday, Sept. 28, 3.26, 3.30 A. M. Box 12.

No. 211 Bridge Street Owned by S. E. Buck. Loss, $147. Insurance, $1,300. Occupied by S. E Buck as wood and coal wharf. Loss, $2,253. Insurance, $5,900. Originated near wood saw in shed. Cause, unknown.

Sunday, Sept. 30, 6.32 P. M. Box 121.

No. 296 Brookline Street. Occupied by J. M. Brennan as dwelling. Loss trifling. Cause, upsetting of a lighted oil lamp.

OCTOBER.

Wednesday, Oct. 3, 3 P. M. Still.

Ninth Street. Freight yard, Boston & Albany Railroad. Originated in car of coke. Cause, unknown.

Thursday, Oct. 4, 12.15 A. M. Box 74.

On tracks of Fitchburg Railroad Cars afire. Loss, $1,800. Insurance, $1,800. Loss on contents, $1,865. Insurance, $1,865. Cause, collision of freight trains.

Sunday, Oct. 7, 10.45 P. M. Still.

No. 8 Story Street. Owned by M. H. Clary. Loss, $171. Insurance, $3,500. Occupied by M. H. Clary as dwelling. Loss, $20. Insurance, $700. Originated in the attic. Cause, lighted lamp placed under roof, which ignited.

Monday, Oct. 8, 2.20 P. M. Still.

No. 30 Bridge Street. Occupied by Wellington-Wild Coal Company. Cause, pile of soft coal afire.

Tuesday, Oct. 9, 3.30 P. M. Still.

No. 133 Amory Street. Owned by John Whitston. Loss, $30. Insurance, $2,500. Occupied by Michael Looney as dwelling. Loss, $30. Insurance, $600. Cause, child and matches.

Sunday, Oct. 14, 12.46 A. M. Box 149.

No. 48 Baldwin Street. Owned by W. E. Francis. Loss, $846. Insurance, $900. Occupied by M. M. Comstock as grocery. Loss, $773. Insurance, $800. Cause, unknown.

No. 44 Baldwin Street. Owned by Eugene Gormley as dwelling. Loss, $150. Insurance, $3,000. Cause, explosion.

Tuesday, Oct. 16, 11 A. M. Still.

No. 588 Massachusetts Avenue. Cause, smoke mistaken for fire.

Wednesday, Oct. 17, 10.03 A. M. Box 12.

No. 183 Bridge Street. Cause, smoke mistaken for fire.

Thursday, Oct. 18, 11.15 P. M. Still.

No. 8 Walden Street. Owned by Mt. Sinai Building Association. Loss, $110. Insurance, $58,000. Occupied by B. E. McDermott as gas fixtures. Loss, $175. Insurance, $4,000. Originated in work shop. Cause, gas jet.

Saturday, Oct. 27, 3.30 P. M. Still.

No. 62 Hampshire Street. H. F. Sparrow & Co., confectioners. Cause, accidental automatic alarm.

Sunday, Oct. 28, 12.30 A. M. Box 29.

No. 33 Portsmouth Street. Occupied as dwelling. Cause, smoke mistaken for fire.

NOVEMBER.

Thursday, Nov. 1, 12.12 P. M. Box 56.

No. 8 Irving Terrace. Owned by L. N. Brock. Occupied by W. S. Powsland as dwelling. Loss trifling. Originated in the cellar. Cause, hot ashes in barrel.

Friday, Nov. 2, 7.56 P. M. Box 47.

No. 7 Hancock Park. Owned by P. F. Mabelle. Loss, $40. Insurance, $5,000. Occupied by P. F. Mabelle as dwelling. Loss, $55. Insurance, $1,500. Cause, upsetting of a lighted oil lamp.

Tuesday, Nov. 6, 5.46 A. M. Box 87.

Chilton Street. Owned by Eugene Gormley and E. R. Felix as unoccupied stable. Loss, $550. Insurance, $800. Cause, incendiary.

Wednesday, Nov. 7, 5.45 P. M. Still.

No. 538 Main Street. Cause, smoke mistaken for fire.

Thursday, Nov. 8, 11.41 P. M. Box 59.

Harvard Street. Cause, false alarm.

Friday, Nov. 9, 6.55 A. M. Box 48.

No. 1222 Cambridge Street. Occupied by J. E. Wakefield as dwelling. Loss, $25. Insurance, $700. Originated in a lounge on second floor. Cause, child and matches.

Saturday, Nov. 10, 5.21 P. M. Box 31.

No. 33 Harding Street. Owned by J. J. Canney. Loss, $15. Insurance, $1,300. Occupied by Charles Canney as dwelling. Loss, $20. No insurance. Cause, lighted lamp setting fire to hanging clothes.

Sunday, Nov. 11, 5.57 P. M. Box 32.

No. 1126 Cambridge Street. Occupied by Michael Kelly as dwelling. Loss, $8. No insurance. Originated in a lounge. Cause, child and matches.

Wednesday, Nov. 14, 4.47 P. M. Still.

Fourth Street. Owned by the City of Cambridge as Putnam Schoolhouse. No loss. Cause, gas stove setting wood box afire.

Friday, Nov. 16, 9.16 A. M. Box 36.

No. 17 Magazine Street. Owned by A. E. Yearley, Loss, $1,348. Insurance, $3,500. Occupied by Thomas Cashman as dwelling. Loss, $1,000. No insurance. Occupied by E. E. Shirreff as dwelling. Loss, $390. Insurance, $500. Originated on first floor. Cause, overheated furnace pipe.

Sunday, Nov. 18, 9.25 A. M. Still.

Sidney Street. Owned by the City of Cambridge, Sewer Department, as old lumber. No loss. Cause, supposed to have been set afire by boys.

Wednesday, Nov. 21, 6.05 A. M. Still.

No. 538 Main Street. Occupied by Ivers & Pond as piano manufactory. Cause, accidental automatic alarm.

Thursday, Nov. 22, 4.54 A. M. Box 25.

No. 21 Blanche Street. Owned by J. F. Gurry. Loss, $25. No insurance. Occupied by J. F. Gurry & Sons as horseshoers. Loss, $50. No insurance. Originated in the floor. Cause, hot iron.

Friday, Nov. 23, 1.45 A. M. Box 134.

No. 19 Murdock Street. Owned by Timothy Mahoney. Loss, $65. Insurance, $500. Occupied by W. R. Jones as dwelling. Loss, $25. No insurance. Cause, lighted lamp igniting curtain.

Friday, Nov. 23, 8.45 P. M. Box 41.

No. 26 Walnut Court. Occupied by G. E. Gerry as dwelling. Loss slight. Cause, upsetting of a lighted lamp.

Saturday, Nov. 24, 10.40 A. M. Still.

No. 569 Massachusetts Avenue. Owned by Charles Bullock. Loss, $10. Insurance, $8,500. Occupied by Cambridge City Band. No loss. No. 567, occupied by T. G. Newgent as gents furnishings. Loss, $16. Insurance, $12,000. Originated in band room. Cause, lighted cigar stub in sawdust spittoon.

Saturday, Nov. 24, 8.01 P. M. Box 14.

No. 167 Otis Street. Occupied by Johanna Creeden as dwelling. Loss slight. Cause, is was supposed by Mrs. Creeden's clothes having taken fire from stove. She was fatally burned.

Tuesday, Nov. 27, 4.55 P. M. Still.

No. 160 Elm Street, North Cambridge. Occupied by W. S. Singer as dwelling. Loss slight. Cause, upsetting of lighted lamp.

Thursday, Nov. 29, 7.20 A. M. Still.

No. 538 Main Street. Occupied by Ivers & Pond as piano manufactory. Cause, accidental automatic alarm.

Friday, Nov. 30, 10.20 P. M. Still.

No. 538 Main Street. Occupied by Ivers & Pond. Cause, accidental automatic alarm.

REPORT OF THE CHIEF OF POLICE

To His Honor, the Mayor, and the City Council of the City of Cambridge: —

Gentlemen, — In compliance with the City Ordinance, I have the honor to present my annual report of the work of the Police Department for the year ending November 30, 1900.

The whole number of arrests for the year has been three thousand, three hundred and ninety-seven (3,397) against three thousand, one hundred and thirty-eight (3,138) last year; an increase of two hundred and fifty-nine (259).

Males	3,175	Adults	2,643
Females	222	Minors	754

The offences for which arrests have been made are as follows: —

Abanding child	1	Fast driving	2
Adultery	14	Forgery	6
Assault and battery	186	Fornication	5
Assault, felonious	3	Giving false alarm of fire	1
Assault on officer	12	Gaming on the Lord's day	64
Assault, indecent	3	Maming nuisance	2
Allowing dog to run at large	1	Having false measure	2
Attempt to steal	1	Having in possession registered bottles	2
Attempt to rescue prisoner	1	Idle and disorderly	9
Admitting minors to pool room	6	Insane	28
Bastardy	21	Illegal transportation	1
Being present where gaming implements were found	9	Illegal sale of liquor	4
Breaking and entering	86	Keeping pool room without license	2
Burning building	1	Keeping unlicensed dog	7
Building bonfire	2	Keeping open shop on Lord's day	1
Being present at game on the Lord's day	38	Liquor nuisance	16
Capias	45	Larceny	212
Common drunkard	6	Larceny from building	3
Contempt of Court	1	Lewd and lacivious cohabitation	5
Common railer and brawler	2	Larceny from person	3
Concealing mortgaged property	2	Loitering on sidewalk	7
Cruelty to animals	1	Malicious mischief	31
Delirium tremens	2	Manslaughter	1
Dipsomaniac	3	Murder	1
Disturbing religious meeting	18	Neglecting to pay poll tax	1
Disorderly conduct	1	Non-support	83
Disorderly house	1	Neglected children	27
Defrauding boarding house	2	Not allowing child to attend school	1
Drunkenness	1,727	Obtaining money by false pretence	1
Defacing	2	Obstructing street car	8
Disturbance on street car	16	Obscene pictures	1
Default	2	Promoting policy	7
Embezzlement	2	Peddling without license	3
Escaped prisoners	7	Perjury	2
Exposure of person	6	Riding bicycle on sidewalk	4
		Receiving stolen goods	3

Runaways	4	Vagrants	22
Robbery	6	Violation of Lord's day	7
Rape	5	Violating City ordinances	151
Refusing to assist officer	1	Violating liquor law	1
Safe keeping	14	Violation of milk law	8
Stubborn children	14	Violating terms of parole	2
Stealing a ride	4	Violating United States law	1
Suspicious persons	14	Violating park rules	3
Selling cigarettes to a minor	1	Violating rules of Board of Health	9
Threatening	3	Violating pool room license	2
Truants	15	Walking on railroad track	16
Trespass	68		

Whole number of lodgers, 213.

Males	213	Minors	9
Females	0	White	206
Adults	204	Colored	7

NATIVITY OF PRISONERS.

United States	1,923	Spain	2
Ireland	834	Poland	14
British Provinces	323	Arabia	2
England	88	West Indies	8
Sweeden	45	Egypt	3
Scotland	50	Greek	4
Germany	21	Finland	1
Italy	16	Norway	6
Portugal	9	Switzerland	3
Denmark	4	Cuba	1
Russia	30	New Zealand	1
Belgium	1	Asia	3
France	3		

OCCUPATION OF PRISONERS.

Agents	28	Electricians	3
Brickmakers	3	Farmers	28
Brokers	1	Florists	5
Blacksmiths	36	Firemen	11
Butlers	3	Gardners	11
Butchers	28	Grocers	13
Brass finishers	12	Gilders	4
Bakers	38	Glass cutters	10
Bottlers	4	Housekeepers	141
Boilermakers	18	Hotel keepers	1
Bookkeepers	7	Hostlers	28
Bookbinders	9	Hatters	1
Barbers	22	Harnessmakers	9
Coachmen	5	Horse dealers	4
Cabinetmakers	25	Helpers	9
Carpenters	83	Instructors	4
Coopers	14	Janitors	22
Conductors	4	Jewellers	3
Clerks	82	Junk dealers	27
Confectioners	15	Letter carriers	1
Curriers	9	Laborers	1,085
Cigarmakers	11	Lathers	5
Cooks	10	Liquor dealers	2
Druggists	9	Masons	63
Dentists	3	Musicians	3
Domestics	44	Machinists	58
Engineers	13	Milkmen	19

Moulders	33	Sailors	18
No occupation	495	Shippers	6
Paperhangers	7	Shoemakers	40
Painters	101	Slaters	4
Plasterers	19	Sawyers	4
Peddlers	67	Steamfitters	20
Physicians	3	Students	25
Packers	5	Storekeepers	31
Plumbers	40	Stairbuilders	2
Polishers	19	Teamsters	150
Printers	37	Tailors	20
Roofers	11	Tinsmiths	21
Railroad men	18	Undertakers	1
Ropemakers	2	Vocalists	4
Rubber workers	28	Waiters	12
Reporters	1	Watchmen	3
Salesmen	21	Weavers	2
Stone cutters	21	Woodturners	1

MISCELLANEOUS BUSINESS.

Accidents	108	Defective wires	1,385
Buildings found open and secured	388	Defective streets and sidewalks	1,265
Cases investigated	1,209	Disturbances suppressed	132
Dead bodies found	9	Dogs killed	41
Defective cess-pools	26	Fire alarms given	5
Defective drains and vaults	1	Fires extinguished without alarms	11
Defective gas-pipes	16	Lost children restored	249
Defective water-pipes	104	Sick and injured persons assisted	36
Defective hydrants	12	Stray teams put up	33
Defective lamps	3,490	Water running to waste	19

Amount of property reported stolen	$5,614 00
Amount of property recovered	5,010 85

CITY PROPERTY IN USE BY POLICE DEPARTMENT.

219	badges	$150 00	*Amount brought forward*		$13,901 50
87	belts	108 00	3	patrol wagons	1,000 00
8	books	26 00	93	revolvers	450 00
4	bookcases	32 00		Ropes and stakes	10 00
8	bedsteads	40 00	3	robes, carriage	20 00
	Bedding and blankets	40 00	1	rogues' gallery	150 00
1	buggy	150 00	3	saddles and bridles	12 00
8	clocks	25 00	2	safes	200 00
2	bureaus	3 00	95	short billies	42 00
80	chairs	100 00	8	spittoons	2 00
1	cartpet	10 00	1	sleigh	25 00
	Leter press and stand	10 00	1	stove	8 00
200	copies police rules	40 00	2	straps and weights	1 00
11	desks	125 00	1	telephone line	300 00
1	easy chair, matron's	10 00	3	thermometers	1 50
5	horses	500 00	6	tables	9 00
6	harnesses	120 00	40	tin dippers	4 00
4	halters	1 00	20	towels	9 00
1	hat rack	50	1	typewriter and desk	140 00
6	ink stands	3 00	2	umbrella stands	2 00
36	lanterns	27 00	1	wagon van, old	25 00
1	lounge	5 00	5	waste baskets	1 00
8	mirrors	14 00	4	water coolers	30 00
3	maps	15 00	1	wardrobe	10 00
10	rugs	20 00	4	water pails	1 00
9	pairs handcuffs	27 00	2	wagon jacks	2 00
1	police van	300 00		Operating table and chair	37 50
3	police signal systems	12,000 00	3	medicine cabinets	75 00
	Amount carried forward	$13,901 50		Total	$16,468 50

EXPENDITURES.

Boarding horses	$300 00
Buttons for department	85 00
Boston Elevated Railway Company	250 00
Boston Ice Company	15 00
Cambridge Gas Light Company	550 00
Cambridge Electric Light Company	160 24
Cleaning stations	241 05
Cloth for department	536 61
Clipping horses	5 00
Coal for department	138 02
Directories for department	15 00
Dictionary for department	9 25
Expressing	12 39
Fresh Pond Ice Company	29 70
Feeding prisoners	46 13
Gas Consumers' Association	36 00
Horse for department	150 00
Hay and grain	399 95
Heating and care of buildings	890 00
Medicines	18 10
Medical attendance	15 00
New England Telephone & Telegraph Company	276 55
Photographs for rogues gallery	42 00
Printing	132 94
Policemen, services of	108,950 17
Repairs on wagons	220 15
Repairs on harnesses	25 61
Repairs on revolvers	11 45
Repairs on buildings	379 45
Revolvers for department, new	21 00
Salary of Chief of Police	1,999 92
Salary of Deputy Chief of Police	1,500 00
Salary of Captains and Inspector	5,599 68
Shoeing horses	111 20
Supplies for stations	555 72
Travelling expenses	46 40
	$123,774 68
Appropriation	$123,800 00
Expenditures	123,774 68
Balance unexpended	$25 32
Expenditures	$123,774 68
Receipts	6,064 38
Balance showing actual cost	$117,710 30

THE FORCE.

The organization of the force consists of a chief, deputy chief, three captains, one chief inspector with the rank of captain, one assistant inspector with the rank of lieutenant, six sergeants, eighty-four patrolmen, ten reserve officers, four drivers of patrol wagons, two drivers of ambulance and two matrons.

Twenty-seven patrolmen are on duty in the day time, one in the Public Library, one in the City Hall, one detailed as clerk at Police Headquarters, one in Police Station 4, and twenty-three for street duty.

During the night time six sergeants and sixty-seven patrolmen are on duty, one as house officer in Police Station 4, two in wagon houses, and sixty-four for street duty.

CHANGES.

During the year one officer has been discharged, two reserve officers promoted to patrolmen, and three reserve officers appointed under civil service rules.

NO-LICENSE.

A close watch is kept on all places suspected of illegally selling intoxicating liquor, and when possible to secure evidence search warrants are served, and if sufficient evidence is found prosecutions follow.

Nineteen search warrants have been served during the year, and twenty-two convictions for violations of the liquor law have been secured.

SIGNAL SYSTEMS.

In the three signal districts during the past year there have been :—

Duty calls by officers	371,803
Telephone calls	17,114
Wagon calls	1,584
Miles run	3,038
To fires	22
Sick and injured persons carried to hospital	18
Sick and injured persons carried home	10
Other runs	210

AMBULANCE.

The ambulance has been called to two hundred and fifty-six (256) accidents and fifty-five (55) removals.

MATRONS.

There were two hundred and twenty-two (222) females arrested during the year, an increase of fourteen (14) over last year. All have received the care and attention of the matrons.

UNIFORM CLOTH FOR THE DEPARTMENT.

There has been purchased during the year cloth for the department to the amount of $536.61. The money for the sale of the same to the members of the department has been paid to the City Treasurer.

RECOMMENDATIONS.

I would again respectfully recommend the remodeling of the building owned by the City, situated on Massachusetts Avenue, used as a police station and formerly occupied in part by the Fire Department.

I would also renew my recommendation that the cell room in Police Station 2 be remodeled by taking out the brick cells and placing in their stead improved iron cages, thereby giving seven additional cells, which are very much needed, as it is often necessary to put more than one prisoner in a cell at a time for want of room. This change will give much better light and ventilation as well as additional cells.

There are now one hundred and seven (107) men in the Police Department with no superior officer for street duty, twenty-three (23) patrolmen are on duty in the day time and sixty-four (64) in the night time.

I would recommend that the six sergeants now doing duty in the station houses be promoted to lieutenants and that nine patrolmen be promoted to sergeants to be assigned as follows: two in each of the three police districts, for night duty, one with each relief, and one in each district for day duty.

CONCLUSION.

To His Honor, the Mayor, the City Council, the City Solictor, and all others who have so kindly co-operated with me in the performance of the duties of my office, I desire to express my sincere thanks.

LOTHROP J. CLOYES,
Chief of Police.

REPORT OF THE TRUSTEES OF THE BRIDGE CHARITABLE FUND

To the Honorable, the City Council:—

The twenty-fourth annual report of the Trustees of the Bridge Charitable Fund is herewith submitted:—

The amount on deposit in the Cambridgeport Savings Bank to the credit of this Fund to July 18, 1899, was	$3,795 63
Interest (added semi-annually) to July 18, 1900	134 00
Amount of the Fund at this latter date	$3,929 63

There is little to be said in relation to this Fund that would be other than a repetition of the text of former reports.

The Trustees would renew the suggestion that the amount due and payable to the Board of Overseers of the Poor, from the Fund, according to the terms of the bequest, be withdrawn from the bank and paid over to the latter Board, which already has the amount of a previous dividend on deposit at the same bank.

As was stated in the last annual report, the amount so due is now upwards of $1,100 and should be withdrawn by the Overseers of the Poor and added to that deposit.

The history of this Fund has been stated in former reports, to one of which, that of the year 1878, reference may be made by those who desire information upon the subject. The history of the circumstances attending the original gift, with the report of the action of the City Council thereon, are recited in the City Document for that year, page 192. It was therein shown that it was the cherished desire of the aged founder of this charity, that in the succeeding years, other kindly disposed citizens should add their contributions to the sum that in after times the income thereto accruing might be of material assistance to the deserving poor of Cambridge. Himself, for a long period a sufferer from severe privations, he fully realized the hardships sustained by the poor and his heart went out towards them with a far reaching benevolence, looking forward to distant generations. Following out the wishes of this humane giver, the Trustees would especially invite the attention of the good people of our City to the slowly accumulating Fund which perpetuates

the name of Levi Bridge; with the further suggestion that an opportunity is here presented of rapidly increasing the amount by numerous small contributions so that its benefits may become immediately available.

Thus may we in a large measure make smooth the ways and lift the burdens of the unfortunate yet deserving poor who "are always with us."

EDGAR R. CHAMPLIN,
WALTER C. WARDWELL,
JOHN D. MERRILL,
} *Trustees of the Bridge Charitable Fund.*

REPORT OF THE TRUSTEES OF THE SANDERS TEMPERANCE FUND

To the Honorable, the City Council: —

The Trustees of the Sanders Temperance Fund submits herewith the thirty-fifth annual report relative to this bequest.

The Fund consists of the sum of $10,000 which was bequeathed to the City of Cambridge by Charles Sanders in the year 1864. He was for some time a citizen of Cambridge, though not a native of the place. Though well and familiarly known to many of our citizens of a generation ago, there are few, if any, of those living who have any remembrance of him. Former reports of this Board have fully recited the story of the gift, and those who may desire such information may easily find it in the annual documents of past years.

In their interpretation of the wishes of the donor, the Trustees for the past years have followed the practice heretofore adopted.

A missionary of the Fund, under the provisions of the will of Mr. Sanders, the Trustees have continued in service, Mr. James Hicks. He was originally appointed in 1896, upon the death of Alonzo Stewart, who had filled the place for many years. Mr. Hicks had long been known as an efficient worker and friend of the unfortunate drunkard, and he entered upon his duties with a zeal which promised the best results. It is believed that he has accomplished much good by his work.

His report, which is attached hereto, tells its own story and strengthens the confidence heretofore reposed in him, and gives us renewed assurance of the faithfulness with which he has performed his duty.

EDGAR R. CHAMPLIN,
WALTER C. WARDWELL,
JOHN D. MERRILL,
} *Trustees of the Sanders Temperance Fund.*

Cambridge, January, 1901.

To the Trustees of the Sanders Temperance Fund: —

Gentlemen: — In accordance with the custom of former years and your requirements, I hereby present the report of my labors for the past year. I can record only the efforts put forth, and give a summary of the work as done through the channels hereinafter named. The blessing of

Him who inspired the godly founder of the Fund has been visibly felt in our temperance gatherings in the homes of the unfortunates, and in the changed lives of many a man and woman.

DISTRICT COURT.

In my daily attendance at the District Court I have had opportunity to come face to face with men and women arrested for drunkenness, and for crimes committed when under the influence of drink. With this class I labored earnestly, to impress upon their minds the folly of their course, showing them the harmful effects of such a life upon the home and the family. Through the kindness and courtesy of the Court, my intercession on behalf of many of these cases has been rewarded by having their cases continued or placed on probation, during which time, I am happy to say, through the combined efforts of our faithful probation officer and myself, a great many men were induced to lead sober and industrious lives.

OFFICE HOURS.

I have had over nine hundred calls at my home, during the year, from broken-hearted mothers and wives seeking advice and counsel; some in regard to drunken husbands; others in regard to their wayward children. I have tried to help in each case as best I could, under the varied circumstances.

TEMPERANCE IN THE CHURCHES.

I have gladly accepted invitations to speak before many of the Societies of Christian Endeavor at their monthly temperance meetings, and am rejoiced at the experience I gather at these meetings. Our young people in all of our churches are alive to the temperance reform. May God grant that, as their Christian experience ripens, they may see their duty more and more in helping along a cause that blesses so many homes.

HOUSE OF CORRECTION.

I have attended the services in the chapel of the House of Correction Sunday mornings during the year, and done what I could to assist the chaplain in the performance of his duties.

I have made many visits to individual prisoners with good results. Imprisonment to many a man has proved a life lesson, and he has gone out a wiser and better man, determined to live a sober, industrious life.

PUBLIC TEMPERANCE MEETING.

I have assisted in conducting two hundred and fifty-three meetings, where over one thousand persons have taken the pledge of total abstinence during the year. These meetings are held at the following places on the evenings hereinafter named :—

Sunday afternoon at three o clock, Temple of Honor Hall; this meeting has been continuously kept up for over sixteen years.

Sunday evening, Raymond Hall; the old Cambridge Temperance Reform Association, founded by Samuel Knights, has kept its lights burning for temperance for almost half a century.

Monday evening, Hope Social Temperance Club meets in vestry of Hope Church; doing a good work.

The Sanders Total Abstinence Union was started in Knights of Honor Hall, East Cambridge, almost a year ago, and, through its influence, many homes have been helped in that part of the City.

Early in the summer, another reform club was started in Unity Hall, North Cambridge, where the work was carried on for over five months, but, finding the locality unsuitable, the North Cambridge Club removed to St. John's Hall, the home of the Catholic Temperance Society, they joining with the club in reform work. We hope to do a grand work for temperance in this hall. We owe much to this Society for their kindly acts. This meeting is continued on every Thursday evening.

The East End Temperance Union meets in the hall of the East End Christian Union, which is kindly given to the Society free of charge, by the Trustees, on Wednesday evenings, and is doing a grand good work for temperance in that part of our City, with a large attendance at every meeting.

Saturday evenings, in Temple of Honor Hall, the Harvard Reform Club holds its meetings, and they always have a well-filled hall. This meeting has helped many a reformed man to keep his pledge, as, instead of going to Boston, he becomes interested in the work of temperance.

The Bay State Temperance Union takes charge of all the clubs and sees to it that the meetings named receive speakers and help, financially and otherwise, in so far as it is possible for them to render assistance.

VISITS MADE.

During the year I have made 2,007 visits to the homes of the unfortunates. I can only say I have, in every case, advised and acted as best I could. I have always been kindly received and have reason to believe that my calls have been productive of much good in many cases.

CAST-OFF CLOTHING.

For several years past I have, through the kindly aid of our local press, been enabled to reach the charitably disposed with an appeal for clothing for the poor. Many good people responded, and last winter they enabled me to assist over one hundred families. Several men assisted in this way, on getting the clothing, have attended our meeting, taken our pledge, and are to-day able to purchase comfortable clothing, not only for themselves, but for their families. Sobriety does it every time.

LITERATURE.

I have collected many hundreds of thousands of pages of reading matter during the year, which is distributed to the men as they pass from the chapel Sunday mornings. For this reading matter, they are profoundly grateful.

NO-LICENSE.

Thank God for the greatest of victories yet achieved over the liquor traffic. The stumbling block has been kept out of the way of our reformed men, who do not want to drink. But were the temptation of the saloon placed before them, how many could stand it? These men have nobly stood by me in the work of reform, working most earnestly for the redemption of their fellowmen from the bondage of strong drink. Without their assistance, it would be impossible for me to show this grand work of reform which goes on in our City night after night. The W. C. T. U., Temple of Honor, and the temperance organizations have all materially assisted in the good work. Very much might be said of the temperance effort in our City, and then much left out that ought to be said. Our citizens ought generally to be praised for their brave stand against the saloon at the last election.

All good people are to be thanked for the rising sentiment for temperance in the churches. And our Police Department for the faithful way they have carried out the order of Mayor and Chief of Police in a strict enforcement of our no-license law. May God long continue us as a City set upon a hill whose light and testimony goes out for temperance and righteousness to the many cities of our beloved country.

With much respect, yours faithfully,

JAMES HICKS,
Missionary Sanders Temperance Fund.

CITY CLERK'S REPORT OF FEES AND LICENSES

OFFICE OF THE CITY CLERK, December 1, 1900.

To the Honorable, the City Council of the City of Cambridge:—

The undersigned herewith presents an account of the sums received for fees and licenses during the year ending November 30, 1900.

Auctioneers' Licenses	$50 00
Pool, Bowling Alley and Billiard Licenses	60 00
Wagon and Carriage Licenses	238 00
Intelligence Office Licenses	30 00
Junk Store and Collectors' Licenses	736 00
Pawnbrokers' Licenses	50 00
Recording Mortgages, Assignments, etc.	500 50
Marriage Certificates	513 50
Certified Copies from Records	97 50
Fees from Dog Licenses	430 20
Fees from Liquor Licenses	52 00
Fees from Firework Licenses	222 00
Sundries	24 00
Total	$3,003 70

The foregoing amount has been paid into the City Treasury.

The receipts from Dog Licenses have been $5,269.00. Of this amount, the City Clerk's fee (20 cents for each license issued), amounting to the sum of $430.20, is included in the above list of fees, and the balance, amounting to $4,838.80, has been paid the County Treasurer.

Respectfully submitted,

EDWARD J. BRANDON,

City Clerk.

REPORT OF THE CITY MESSENGER

OFFICE OF THE CITY MESSENGER, December 1, 1900.

To the Honorable, the City Council:—

GENTLEMEN:—In compliance with the Ordinance relating to the purchase and delivery of stationery, the City Messenger has the honor to submit his annual report:—

Stock of stationery on hand December 1, 1899	$429 33
Purchased during the year	1,075 96
	$1,505 29

Delivered to heads of departments as follows:—

Street Department	$67 05
City Clerk Department	120 06
Engineering Department	30 24
Clerk of Committees Department	113 01
City Auditor Department	16 36
City Treasurer Department	35 79
Police Department	61 61
Lamp Department	4 84
Assessors' Department	88 31
Fire Department	5 40
Milk Inspector Department	12 53
Superintendent Public Buildings Department	24 71
Soldiers' Aid Department	17 57
Law Department	37 74
Executive Department	68 95
Election Expenses	68 94
Sealer of Weights and Measures	5 70
Registrars of Voters	13 89
Park Department	59 97
Sewer Department	5 88
Board of Health	16 51
Cambridge Public Library	45 00
Contingent Fund	14 04
Electrical Department	14 50
City Messenger's Department	123 64
	1,072 24
Stock of stationery on hand December 1, 1900	433 05
	$1,505 29

Respectfully submitted,

FRANCIS L. PRATT,

City Messenger.

REPORT OF BOARD OF HEALTH

To the Honorable, the City Council: —

In compliance with the Public Statutes creating Boards of Health and defining their duties, we have the honor to make our annual report for the year ending December 31, 1900.

We respectfully call the attention of your honorable body to the following list of complaints investigated, and nuisances abated, during the year: —

Full, overflowing, and offensive privy-vaults	21
Offensive and defective water-closets	189
Full and defective cess-pools and catch-basins	40
No traps to sinks	12
Leaky and defective traps	43
Defective drainage, open and defective drains	63
Plumbing tests made	192
Filthy yards	398
Filthy stables and cow sheds	54
Manure in yards and lots	22
Wet and damp cellars	10
Stagnant water on premises	7
Dead animals on premises	31
Dead hens on premises	8
Filthy buildings	12
Filthy cellars	164
New water-closets put in	52
Dirty bakeries	2
Houses vacated	2
Tenements vacated	1
Dirty hen coops	12
Miscellaneous	24
Total	1,359
Number of inspections made	6,682
Number of subsequent inspections	7,380
Total	14,062
Number of notices served	210
Slop closets and sluice vaults abated	12
Offal receptacles cleaned	37
Vacant lots cleaned	12
Defective plumbing in whole house remedied	21
Privy vaults abated	21
Cess-pools abated	11
Number of houses placarded	687
Premises disinfected	1,623
Number of cellars from which hens were removed	19
Number of patients taken to hospital	179

MEDICAL INSPECTION OF SCHOOLS.

The diseases discovered in the schools, and the number of cases were as follows: —

Chicken-pox	30
Diptheria	18
Measles	42
Mumps	2
Pediculosis	179
Scabies	5
Scarlet fever	5
Whooping-cough	5
Diseases of ear	22
Diseases of eye	118
Diseases of skin	93
All other diseases	341
Total	860

The number of cases reported from individual schools ranged from one to sixty-seven.

TEMPORARY HOSPITAL.

Owing to the large number of cases of diphtheria occuring in the latter part of 1899 the Board of Health took up and opened for the reception of patients the house No. 59 on Reservoir Street.

The first patient was admitted December 7, 1899, and the last patient was discharged April 27, 1900, and the house closed.

Below is given the number of patients admitted, the length of stay in hospital of each patient, and the termination of the illness.

Days.	Recovered.	Died.	Days.	Recovered.	Died.
2	..	3	24	4	..
3	..	2	25	2	..
8	..	1	26	3	..
9	1	..	28	2	..
10	3	1	30	2	..
11	1	..	31	1	..
12	3	1	32	1	..
13	2	..	33	1	..
14	3	..	34	3	..
15	4	..	35	1	..
16	4	..	40	2	..
17	3	..	50	1	..
19	1	..	52	1	..
20	4	..	68	1	..
21	2	..			
22	3	..		61	8
23	2	..			

It became necessary to reopen this temporary hospital in October of 1900, and the first patient was admitted on the twenty-ninth of that month. From that date to the end of 1900 there have been admitted fifty patients, of which number four have died, twenty-eight have been discharged well, and eighteen remained under treatment on December 31, 1900.

E. EDWIN SPENCER,
CHARLES HARRIS,
WM. RODMAN PEABODY,
} *Board of Health of City of Cambridge.*

OFFICE OF BOARD OF HEALTH,
CITY HALL, December 31, 1900.

To the Honorable, the City Council:—

This Board herewith respectfully submits its annual financial statement, it being for the year ending November 30, 1900:—

Amount appropriated for Health Department	$20,000 00

AMOUNT EXPENDED.

Advertising	$ 9 32	
Ambulance (cost of running)	34 08	
Atlas of Middlesex County	35 00	
Bacteriological examinations	1,101 00	
" supplies (laboratory)	337 02	
Blueing	40	
Burial of animals	108 00	
Candles	2 10	
Car tickets	500 00	
Carriage hire	73 25	
Chemicals	241 45	
Cushion keys	2 50	
Directory	3 00	
Expressage	7 00	
Extra office help	133 33	
Foramldehyde lamps and maintenance	27 00	
Harness and wagon repairs and maintenance	21 05	
Hospital, Cambridge (care of patients)	5,950 45	
" Temporary	7,249 89	
Keep of horse, shoeing and storage	397 50	
Legal services	31 56	
Matches	1 55	
Public urinals (tools, disinfectants and maintenance)	40 35	
Printing and postage	274 04	
Repairing book rack	1 00	
School inspection (services of physicians)	1,300 00	
Services of Medical Inspector and physician to Board	3,000 00	
" clerk	1,200 00	
" secretary and ex-agent	799 69	
" sanitary inspectors	2,808 51	
" driver	750 00	
" plumber	950 00	
Siphon	4 00	
Stamp (Midget) and postage	53	
Stationery	76 24	
Tacks and twine, etc.	75	
Telephones	246 59	
Tongue depressors	6 00	
Support of patient at Boston Almshouse, 4 4-7 weeks	13 71	
W. B. Hunt & Co. (prescription)	1 30	
Boxes for formaldehyde lamps	6 30	
Total expenditures		19,995 57
Balance of appropriation unexpended		$4 43

By direction of the Board of Health,

JAMES B. SOPER,
Clerk.

TEMPORARY HOSPITAL.

DIPHTHERIA.

59 Reservoir Street.

Original appropriation	$6,900 00	
Additional " (from Contingent Fund)	350 00	
		$7,250 00

AMOUNT EXPENDED.

Blank books	$ 8 40	
Coal and wood	99 59	
Consultations	10 00	
Cleaning	11 87	
Express	63	
Furniture, packing and moving of	32 78	
Furnishings	867 47	
Gas and water connections	85 81	
Gas	63 30	
Groceries	171 59	
Ice	10 06	
Ice cream	7 75	
Legal services	2 48	
Medicines	171 64	
Milk	108 80	
Provisions	293 12	
Repairs and alterations	1,126 20	
Services of physician	642 86	
" matron	733 93	
" nurses	1,822 72	
" cook	131 57	
" laundry maid	136 82	
" house man	394 00	
" " servant	80 71	
" temporary help	5 00	
Amount carried forward		$7,250 00

Amount brought forward		$7,250 00
Surgical implements, etc.	$190 14	
Telephone	39 65	
Transportation	1 00	
Total expenditures		$7,249 89
Balance of appropriation unexpended		$ 11

By direction of the Board of Health,

JAMES B. SOPER,
Clerk.

BACTERIOLOGICAL LABORATORY,
CITY HALL, CAMBRIDGE, January 1, 1901.

To the Board of Health :—

GENTLEMEN : — I beg to submit the following report of work done in the laboratory during the year 1900. The total number of examinations made was 3,199, distributed as follows : —

	Throat Cultures for Diphtheria.	Sputum Examinations for Tuberculosis.	Blood Examinations for Typhoid.	Total.
January	440	15	3	458
February	279	16	9	304
March	286	22	3	311
April	130	16	5	151
May	91	12	4	107
June	106	12	4	122
July	117	14	12	143
August	93	10	18	121
September	89	8	20	117
October	252	19	27	298
November	535	16	24	575
December	458	14	20	492
	2,876	174	149	3,199

The throat cultures for diphtheria may be divided into two groups, the first comprising those taken for purpose of diagnosis, the second including those taken for release after the disappearance of clinical signs. The two groups may be summarized as follows : —

CULTURES FOR DIAGNOSIS.

	Positive.	Negative.	No Growth.	Total.
January	55	102	1	158
February	42	61	....	103
March	27	62	2	91
April	17	39	....	56
May	17	25	1	43
June	23	29	....	52
July	17	27	2	46
August	25	21	1	47
September	20	18	2	40
October	61	32	2	95
November	88	74	8	170
December	58	84	3	145
Total	450	574	22	1,046

CULTURES FOR RELEASE.

	Positive.	Negative.	No Growth.	Total.
January	139	139	4	282
February	81	95	....	176
March	100	91	4	195
April	33	40	1	74
May	29	19	....	48
June	18	36	....	54
July	35	35	1	71
August	13	32	1	46
September	22	26	1	49
October	91	61	5	157
November	204	146	15	365
December	134	178	1	313
Total	899	898	33	1,830

The 1,046 cultures for diagnosis were from 994 cases, the remaining fifty-two being second cultures from cases where the first culture was doubtful or unsatisfactory. Of the 1,830 cultures for release, 442 were from cases where no cultures for diagnosis had been made, and of these 213 were negative at the first examination.

The unsatisfactory or "no growth" cultures numbered fifty-five, about 2 per cent. of the total. This was due largely to contamination of the cultures by moulds and putrifactive bacteria. The number of these unsatisfactory cultures could be greatly reduced if the physicians making the cultures were careful to use only fresh tubes of blood serum, and not tubes which they have kept in their offices for several weeks.

Of 174 sputa examined for tuberculosis, 117 were positive and fifty-seven were negative. In many cases the examinations were greatly facilitated by the use of the electric centrifugal machine.

Of the 149 specimens of blood tested for the Widal reaction for typhoid, fifty-six gave positive results and ninety-three negative. The method followed was unchanged from that employed before.

Early in the year, pasteboard culture boxes were substituted for the copper boxes formerly used, the result being a decided improvement in weight, cleanliness and cheapness. Wooden tongue depressors were also added to the outfit to enable the physician to dispense with the spoon in examining throats.

For the convenience of physicians desiring to take cultures, stations for the distribution of culture outfits were established at the following places, in addition to those named in the last report: —

Reycroft Pharmacy Company . 1920 Massachusetts Ave., North Cambridge.
N. P. Tobey . . . . . 551 Putnam Ave.

Respectfully submitted,

EUGENE A. DARLING, M. D.

VITAL STATISTICS.

Death Rate, per 1,000 Living, from All Causes.
Population (U. S. Census), 91,886.

1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.
19.24	19.44	20.89	19.56	18.40	18.87	17.93	17.65	17.25	16.83

All rates requiring revision in accordance with the returns of the United States Census for the year 1900 have been so revised.

In calculating death rates, the deaths of non-residents occurring in the City were excluded, and the deaths of residents wherever they occurred were included.

The mean annual death rate for the ten years, 1891 to 1900, inclusive, was 18.60.

The death rate for the year just passed is always a little below the correct rate, as the returns of the deaths of some residents which occurred at a distance from home are not received till after the report has been made up. This error is corrected in the next annual report.

SCARLET FEVER.

CASES REPORTED.

Ward.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1.....	3	2	2	0	1	1	0	0	1	5	6	0	21
2.....	7	6	14	4	2	2	1	1	10	4	15	3	69
3.....	1	3	4	1	4	11	0	2	1	0	7	4	38
4.....	7	11	5	2	0	0	1	0	1	7	1	1	36
5.....	6	1	0	2	0	0	1	0	0	0	1	1	12
Total.....	24	23	25	9	7	14	3	3	13	16	30	9	176

The reported cases of Scarlet Fever show an increase of eighteen over those reported in 1899.

Ward 1 shows a decrease of 5 cases.
Ward 2 shows an increase of 23 cases.
Ward 3 shows an increase of 21 cases.
Ward 4 shows a decrease of 3 cases.
Ward 5 shows a decrease of 18 cases.

Cases Reported Weekly.

Jan. 6	3	July 7	0
" 13	9	" 14	0
" 20	5	" 21	1
" 27	3	" 28	1
Feb. 3	9	Aug. 4	1
" 10	3	" 11	1
" 17	4	" 18	1
" 24	7	" 25	1
March 3	5	Sept. 1	0
" 10	3	" 8	3
" 17	4	" 15	3
" 24	4	" 22	1
" 31	13	" 29	6
April 7	3	Oct. 6	2
" 14	3	" 13	7
" 21	2	" 20	3
" 28	1	" 27	2
May 5	2	Nov. 3	4
" 12	2	" 10	5
" 19	2	" 17	10
" 26	1	" 24	7
June 2	4	Dec. 1	6
" 9	4	" 8	2
" 16	3	" 15	3
" 23	2	" 22	3
" 30	1	" 29	0

Age and Sex Distribution of 174 Cases.

Age.	Males.	Females.	Persons.
0– 1 Year	1	1	2
1– 2 Years	2	3	5
2– 3 "	5	4	9
3– 4 "	9	13	22
4– 5 "	10	10	20
5–10 "	34	31	65
10–15 "	14	14	28
15–20 "	6	6	12
20–30 "	5	4	9
30–40 "	0	2	2
Total	86	88	174

Death Rate per 1000 Living.

1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.
0.13	0.22	0.87	1.27	0.20	0.07	0.11	0.06	0.08	0.09

Morbidity or Sick Rate per 1000 Living.

4.90	5.01	8.84	11.37	3.59	2.36	2.68	1.38	1.75	1.91

Fatality, or Case Death Rate, Percentage.

1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.
2.82	4.54	9.85	11.20	5.80	3.03	4.32	4.91	5.06	5.11

For the ten years recorded above the mean annual death rate was 0.31; the mean annual morbidity, 4.37; the mean annual fatality, 5.66.

DIPHTHERIA.

CASES REPORTED.

Ward.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1.....	4	10	3	5	2	0	1	3	1	10	11	4	54
2.....	58	21	25	10	13	13	13	13	21	61	58	41	347
3.....	32	18	4	6	13	17	9	8	5	18	20	18	168
4.....	25	17	3	5	9	8	7	11	13	34	60	47	239
5.....	10	7	5	2	1	14	8	14	12	21	18	5	117
Total.....	129	73	40	28	38	52	38	49	52	144	167	115	925

The reported cases of diphtheria show an increase of 423 over those reported in 1899.

Ward 1 shows an increase of 12 cases.
Ward 2 shows an increase of 215 cases.
Ward 3 shows a decrease of 61 cases.
Ward 4 shows an increase of 173 cases.
Ward 5 shows an increase of 84 cases.

Cases Reported Weekly.

Jan. 6	29	July 7	8
" 13	36	" 14	13
" 20	26	" 21	9
" 27	24	" 28	6
Feb. 3	18	Aug. 4	6
" 10	22	" 11	10
" 17	16	" 18	13
" 24	16	" 25	9
Mar. 3	21	Sept. 1	13
" 10	12	" 8	11
" 17	8	" 15	9
" 24	7	" 22	17
" 31	7	" 29	15
April 7	6	Oct. 6	19
" 14	9	" 13	27
" 21	8	" 20	27
" 28	5	" 27	49
May 5	7	Nov. 3	35
" 12	10	" 10	33
" 19	6	" 17	47
" 26	9	" 24	35
June 2	18	Dec. 1	43
" 9	8	" 8	30
" 16	4	" 15	29
" 23	13	" 22	13
" 30	15	" 29	29

Age and Sex Distribution of 921 Cases.

Age.	Males.	Females.	Persons.
0– 1 Year	7	6	13
1– 2 Years	20	25	45
2– 3 "	38	31	69
3– 4 "	47	33	80
4– 5 "	45	41	86
5–10 "	181	206	387
10–15 "	64	64	128
15–20 "	15	16	31
20–30 "	13	35	48
30–40 "	4	17	21
40–50 "	5	5	10
50–60 "	0	3	3
Total	439	482	921

Death Rate per 1000 Living.

1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.
0.22	0.75	0.53	0.76	1.29	0.77	0.60	0.34	0.61	0.78

Morbidity or Sick Rate per 1000 Living.

1.59	1.74	1.33	2.24	7.27	5.43	3.74	1.73	5.58	10.00

Fatality, or Case Death Rate, Percentage.

13.0	37.8	36.8	32.5	17.8	13.6	15.8	19.0	10.9	7.78

For the ten years recorded above the mean annual death rate was 0.66; the mean annual morbidity 4.07; the mean annual fatality 20.5.

In a portion of the reported cases the diagnosis was made without a bacterial examination and it is therefore probable that some cases which were not true diphtheria are included. Still, though admitting this as a fact, the fatality was undoubtedly quite low.

TYPHOID FEVER.

CASES REPORTED.

Ward.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1.....	1	2	2	0	1	2	0	2	3	9	3	5	30
2.....	1	2	0	0	1	2	0	3	4	12	9	3	37
3.....	0	0	0	0	0	0	0	2	5	5	3	0	15
4.....	0	0	0	2	1	1	1	0	4	2	4	3	18
5.....	0	1	0	0	2	1	1	2	1	2	1	0	11
Total.....	2	5	2	2	5	6	2	9	17	30	20	11	111

The reported cases of typhoid fever show an increase of eleven over those reported in 1899.

Ward 1 shows an increase of 20 cases.
Ward 2 shows an increase of 9 cases.
Ward 3 shows a decrease of 1 case.
Ward 4 shows a decrease of 11 cases.
Ward 5 shows a decrease of 6 cases.

The distribution of ninety-four cases according to the months in which the disease was probably contracted is as follows:—

December, 1899	2	July, 1900	7
January, 1900	4	August, "	14
February, "	1	September, "	25
March, "	1	October, "	18
April, "	5	November, "	9
May, "	5	December, "	2
June, "	1		

Age and Sex Distribution of 107 Cases.

Ages.	Males.	Females.	Persons.
1– 2 Years	1	0	1
2– 3 "	1	0	1
3– 4 "	1	0	1
4– 5 "	1	2	3
5–10 "	4	5	9
10–15 "	3	3	6
15–20 "	6	4	10
20–30 "	27	16	43
30–40 "	12	9	21
40–50 "	5	3	8
50–60 "	2	1	3
60–70 "	0	1	1
	63	44	107

Death Rate per 1000 Living.

1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899	1900.
0.22	0.20	0.20	0.29	0.14	0.37	0.14	0.15	0.23	0.16

Morbidity, or Sick Rate, per 1000 Living.

0.97	1.07	1.20	1.50	1.31	3.04	1.22	1.09	1.11	1.20

Fatality, or Case Death Rate, Percentage.

22.8	18.7	17.3	17.5	11.2	11.7	10.4	14.5	20.0	13.5

For the ten years recorded above the mean annual death rate was 0.21; the mean annual morbidity 1.37; the mean annual fatality 15.7.

MEASLES.

CASES REPORTED.

Ward.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1.....	2	7	8	6	5	1	6	0	0	0	0	1	36
2.....	4	5	10	11	4	6	2	1	1	0	0	0	44
3.....	2	0	3	2	3	5	1	1	1	0	0	1	19
4.....	2	2	2	1	2	1	3	4	0	0	0	0	17
5.....	2	0	1	6	1	4	8	0	0	0	0	0	22
Total.....	12	14	24	26	15	17	20	6	2	0	0	2	138

The reported cases of Measles show a decrease of 335 from those reported in 1899.

Ward 1 shows a decrease of 38 cases.
Ward 2 shows a decrease of 150 cases.
Ward 3 shows a decrease of 37 cases.
Ward 4 shows a decrease of 67 cases.
Ward 5 shows a decrease of 37 cases

Cases Reported Weekly.

Jan.	6	0		July	7	6							
"	13	5		"	14	7							
"	20	2		"	21	2							
"	27	3		"	28	4							
Feb.	3	2		Aug.	4	3							
"	10	4		"	11	4							
"	17	3		"	18	0							
"	24	3		"	25	0							
Mar.	3	5		Sept.	1	1							
"	10	6		"	8	1							
"	17	4		"	15	0							
"	24	8		"	22	0							
"	31	5		"	29	0							
April	7	2		Oct.	6	0							
"	14	10		"	13	0							
"	21	6		"	20	0							
"	28	4		"	27	0							
May	5	5		Nov.	3	0							
"	12	3		"	10	0							
"	19	6		"	17	0							
"	26	2		"	24	0							
June	2	5		Dec.	1	0							
"	9	7		"	8	1							
"	16	3		"	15	0							
"	23	3		"	22	0							
"	30	2		"	29	1							

Age and Sex Distribution of 132 Cases.

Age.	Males.	Females.	Persons.
0– 1 Year	2	2	4
1– 2 Years	2	6	8
2– 3 "	8	2	10
3– 4 "	5	3	8
4– 5 "	2	6	8
5–10 "	19	20	39
10–15 "	5	4	9
15–20 "	8	3	11
20–30 "	15	13	28
30–40 "	4	2	6
40–50 "	0	1	1
	70	62	132

Death Rate per 1000 Living.

1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.
0.11	2.02	0.14	0.00	0.03	0.05	0.03	0.01	0.08	0.00

Morbidity, or Sick Rate, per 1000 Living.

.....	.....	.....	.....	3.05	2.72	4.78	0.60	5.26	1.50

Fatality, or Case Death Rate, Percentage.

.....	.....	....	.....	1.20	2.20	0.73	1.80	1.69	0.00

For the ten years recorded above the mean annual death rate was 0.24.

For the six years recorded above the mean annual morbidity was 2.98; and the mean annual fatality 1.27.

Death Rate per 1000 Living.

	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.
Cancer	0.72	0 56	0.60	0.59	0.77	0.68	0.54	0.82	0.56	0.75
Diarrhœal disea'es	1.92	2.04	1.64	2.14	1.69	2.41	2.21	2.00	1.35	1.51
Phthisis	2.73	2.69	2.76	2.08	2.22	2.28	2.29	2.24	1.85	2.25
Whooping-cough..	0.16	0.14	0.20	0.43	0.13	0.21	0.19	0.25	0.31	0.13
Bronchitis	0.76	0.87	0.85	0.65	0.50	0.70	0.62	0 52	0.56	0.52
Pneumonia	1.65	1.45	2.06	1.41	1.40	1.91	1.20	1.66	1.81	1.65

The mean annual death rate for the ten years recorded above was of cancer 0.66; of diarrhœal diseases 1.89; of phthisis 2.40; of whooping-cough 0.21; of bronchitis 0.65; of pneumonia 1.62.

RETURN OF DEATHS (NON-RESIDENTS OMITTED).

Age and Sex Distribution.

Age.	Males.	Females.	Persons.
0– 1 Year	200	156	356
1– 2 Years	39	38	77
2– 3 "	19	7	26
3– 4 "	18	13	31
4– 5 "	7	14	21
5–10 "	27	25	52
10–15 "	18	14	32
15–20 "	19	19	38
20–30 "	67	74	141
30–40 "	63	58	121
40–50 "	63	67	130
50–60 "	78	66	144
60–70 "	72	81	153
70–80 "	60	75	135
Over 80 "	32	58	90
Total	782	765	1,547

Monthly Distribution.

January	151	July	138
February	126	August	132
March	180	September	123
April	127	October	139
May	111	November	121
June	90	December	109

CAUSES.

	Males.	Females.	Persons.
Bronchitis	23	25	48
Pneumonia	83	69	152
Cancer	26	43	69
Cerebro-spinal Meningitis	1	1	2
Cholera Infantum	35	43	78
Diarrhoea and Cholera Morbus	33	25	58
Dysentery	2	1	3
Diphtheria and Croup	42	30	72
Erysipelas	1	3	4
Fever, Scarlet	6	3	9
Fever, Typhoid	10	5	15
Influenza	5	8	13
Malaria	1	1	2
Phthisis	97	110	207
Puerperal Septicæmia	0	5	5
Sunstroke	3	1	4
Whooping-cough	7	5	12
Diseases of Brain and Spinal Cord	58	83	141
Diseases of Heart	54	68	122
Diseases of Kidney	37	34	71
Accident	38	15	53
Homicide	1	0	1
Suicide	9	0	9
Unknown and ill-defined	66	53	119
All other causes	144	134	278
Total	782	765	1,547
Still births	66	57	123

EDWIN FARNHAM, M. D.

ANNUAL REPORT OF OVERSEERS OF POOR

CENTRAL SQUARE BUILDING, CAMBRIDGE, December 24, 1900.

To the Honorable, the City Council of the City of Cambridge: —

GENTLEMEN:—The Overseers of the Poor present their twenty-third annual report for the year ending November 30, 1900.

The system of investigation and relief, which was referred to in our last report, has been continued during the present year.

The Board has suffered a loss in its membership during the year in the decease of Stephen Anderson on April 27, 1900. A special meeting was held on April 30th for the purpose of considering the matter, and it was

Resolved, By the death of Stephen Anderson the City has lost a faithful public servant, and we shall miss a highly respected associate. During his many years of service on this Board he was always attentive to his duties and ready to do his share of the work; was prompt and independent in expressing his opinions and yet courteous to others; was interested in the general public welfare and sympathetic with the poor and unfortunate. He was an advocate of temperance, integrity and all things of good repute. He was kindly in his personal relations with his fellows, and of him we shall cherish a pleasant and happy memory.

Resolved, That we attend the funeral services at the church.

In accordance with this vote the members attended the obsequies, as well as the employees of the office, the Warden of the Almshouse and the City Physician.

On May 22d last the City Council elected Cornelius Minihan as an Overseer of the Poor to fill the term of Stephen Anderson to expire on April 6, 1902.

Estimates for 1900 for the different branches of this department were made by the Board on January 10, and sent to the City Council, and the following appropriations were made: —

Outside aid	$50.000 00
Almshouse	21,750 00
Farm	5,300 00
House offal	26,000 00

On December 4th additional appropriations and transfers were made as follows: —

To outside aid	2,000 00
To house offal	100 00
	$105,150 00

The following were the actual expenditures and receipts for the year: —

OUTSIDE AID.

Expenditures	$51,986 02
Receipts	3,141 30
Net cost	$48,844 72

ALMSHOUSE (CITY HOME).

Expenditures	$21,624 69
Receipts	748 97
Net cost	$20,875 72

FARM.

Expenditures	$4,963 57
Receipts	5,082 43
Net gain	$118 86

CITY PHYSICIAN.

Expenditures	$1,500 00

HOUSE OFFAL.

Expenditures	$26,080 54
Receipts	7,322 05
Net cost	$18,758 49

The number of persons at institutions for whose support the City has been liable, during the year, is contained in the following list: —

City Almshouse (City Home), imbecile, 2; blind, 3; epileptic, 3; insane, 10; all others, 150	168
State Insane Hospitals	194
State Almshouse, insane, 12; paupers, 21	33
State Farm, insane, 5; paupers, 2	7
Insane in families	5
State Hospital for Epileptics	5
Massachusetts School for Feeble Minded	13
Baldwinville Hospital Cottages	3
	453

The insane hospitals include eleven at the Danvers Insane Hospital, one hundred and six at the Worcester Insane Hospital, eighteen at the Worcester Insane Asylum, three at the Taunton Insane Hospital, eighteen at the Westboro Insane Hospital, twenty-five at the Foxboro Dipsomaniac Hospital, thirty-seven at the Medfield Insane Asylum, twelve in the insane ward at the State Hospital at Tewksbury, and five in the insane ward at the State Farm at Bridgewater. Four insane females and one insane

male have been boarded in families, all under the supervision of the State Board of Insanity. There have been ten midly insane cases at the Cambridge City Home in addition to the other insane supported by the City.

The amount paid to the State Insane Hospitals, State Almshouse, State Farm, and private families for the 246 insane has been $31,199.90, which is $4,956.11 more than last year.

The relatives and families of the insane supported by the City have paid $1,589.64 into the City Treasury, and other persons have paid $249.66. Other cities and towns have reimbursed the City to the amount of $539.84 for aid rendered their poor living in Cambridge. The State Treasurer has paid $762.16 for the support of cases having no settlement which were aided from the office of the Board.

There have been 411 histories taken of new applicants for relief.

The City Physician has made 1,642 visits upon 179 patients at the City Home, and he has also made 862 visits upon 462 patients outside of the institution. There were 144 examinations as to sanity, and ninety-one certificates of dipsomania, epilepsy or insanity issued from his office. There has been paid from the Overseers of the Poor appropriation $196.69 for Outside Aid medicines and $307.08 for City Home medicines. Thirty-nine dollars and sixty-five cents have been paid for Outside Aid surgical appliances, and $25.03 at the City Home. One hundred and twenty-one dollars have been paid for Outside additional medical service and $10 for inside medical service. There were fourteen deaths at the City Home. Seventeen persons were sent to the hospitals. Thirty-seven persons have received burial in the Cambridge Cemetery on Outside Aid account, at an expense of $331.40; and six persons on the City Home account, at an expense of $55.75 for undertaker's service and interment.

There have been 168 inmates in the City Home during the year, and there remained eighty-two persons on November 30.

There have been 223 families, embracing 674 persons aided from the office of the Board during the past year. Thirty-three of these families lived in Wards 1 and 5, embracing 112 persons, the population being 29,307. In Wards 2 and 4 there were 139 families relieved, consisting of 382 persons, the population being 49,159. In Ward 3 there were fifty-one families assisted, including 180 persons, the population being 13,629. The total population of the City was 92,095, as estimated from figures furnished from the office of the City Clerk.

RECAPITULATION.

Total expenditures for Outside Aid, City Home, Farm	$78,574 28
Receipts for the same	5,972 70
Net cost of care of the poor	$72,601 58

ADDITIONAL RECAPITULATION.

Net cost of poor to the City	$72,601 58
Add profit from Farm	118 86
Net cost of poor with gain from Farm	$72,720 44
Net expense of the City Home for the year	$20,875 72
Net expense insane outside of City Home, as estimated	29,610 26
	$50,485 98
Net expense of aid to families outside of City Home, as estimated	22,234 46
Total cost of poor with gain from Farm	$72,720 44
Deduct gain from Farm	118 86
Net cost of poor to the City	$72,601 58
Salary of the City Physician	1,500 00

The fact that the receipts of the present year have been much less than the previous year, together with the greatly increased expense of the insane poor, will account for the increased net cost of the poor to the City.

Respectfully submitted,

CHARLES WALKER, *Ward 4,*
(Chairman.)
ALEXANDER MILLAN, *Ward 1.*
WILLIAM W. BURRAGE, *Ward 2.*
, *Ward 3.*
CHARLES BULLOCK, *Ward 5.*

REPORT OF THE SUPERINTENDENT OF THE CITY HOME

CAMBRIDGE, December 1, 1900.

To the Overseers of the Poor :—

GENTLEMEN :—The annual report of the Cambridge City Home for the year ending November 30, 1900, is herewith respectfully submitted.

The whole number in the Home during the year has been as follows :—

Males	78
Females	90
Total	168
Adults	143
Minors	25
Whole number in the Home, November 30, 1900	82
Average number during the year	92

Included in the whole number in the Home, November 30, 1900, there are :—

INSANE OR DEMENTED.

Males	2
Females	8
Total	10

IDIOTIC OR IMBECILE.

Males	1
Females	1
Total	2

BLIND.

Males	1
Females	2
Total	3

EPILEPTIC.

Males	1
Females	2
Total	3

Included in the whole number discharged during the year are twenty-two persons sent to other institutions as follows : —

To Boston Almshouse	1
Carney Hospital	2
Elizabeth Home	1
Middlesex County Home of Correction	1
Soldiers Home	1
State Home	8
State Hospital	4
State Lunatic Hospital, Worcester	4

Remaining in the Home November 30, 1900: —

Males	40
Females	42
Adults	79
Minors, 2 boys, 1 girl	3

All statistics of general interest will be exhibited by the following tables: —

TABLE I.

Showing the number and sex of adult persons and minors of all classes received into the Cambridge City Home in each month of the year ending November 30, 1900.

Months.	Adults.		Minors.		Total.	Dependent Children.		Neglected Children.	
1899.	M.	F.	M.	F.		M.	F.	M.	F.
December	1	5	0	3	9	0	3	0	0
1900.									
January	3	2	1	1	7	1	1	0	0
February	0	2	0	0	2	0	0	0	0
March	2	3	0	3	8	0	3	0	0
April	6	3	2	0	11	2	0	0	0
May	0	5	3	3	11	3	3	0	0
June	3	2	1	0	6	1	0	0	0
July	1	4	0	2	7	0	2	0	0
August	0	2	0	0	2	0	0	0	0
September	0	1	1	0	2	1	0	0	0
October	1	5	1	0	7	1	0	0	0
November	1	1	1	0	3	1	0	0	0
Totals	18	35	10	12	75	10	12	0	0

TABLE II.

Showing the number and sex of adult persons and minors of all classes discharged from the Cambridge City Home in each month of the year ending November 30, 1900.

Months.	Adults.		Minors.		Total.	Dependent Children.		Neglected Children.	
1899.	M.	F.	M.	F.		M.	F.	M.	F.
December	3	1	0	1	5	0	1	0	0
1900.									
January	3	1	1	1	6	1	1	0	0
February	1	2	0	0	3	0	0	0	0
March	1	3	0	0	4	0	0	0	0
April	3	6	1	4	14	1	4	0	0
May	6	1	3	4	14	3	4	0	0
June	3	7	1	1	12	1	1	0	0
July	3	1	0	2	6	0	2	0	0
August	2	2	0	0	4	0	0	0	0
September	3	1	1	0	5	1	0	0	0
October	0	9	1	0	10	1	0	0	0
November	1	1	1	0	3	1	0	0	0
Totals	29	35	9	13	86	9	13	0	0

TABLE III.

Showing the name, age, time of admission, date and cause of death of each person who has died in the Cambridge City Home during the year ending November 30, 1900.

Name.	Age.	Date of Admission.	Date of Death.	Cause of Death.
Matthew Terry	74	Feb. 17, 1899	Dec. 11, 1899	Paralysis.
Thomas O'Hara	74	Mar. 27, 1896	Dec. 27, 1899	Pulmonary Congestion.
Mary E. Williams	49	Nov. 29, 1899	Jan. 26, 1900	Cancer.
Dennis Walsh	48	Oct. 30, 1899	Apr. 5, 1900	Cerebral Tumor.
Jane Beresford	71	Apr. 3, 1900	Apr. 13, 1900	Bright's Disease.
Thomas W. Scott	80	Feb. 18, 1891	May 20, 1900	Senile Debility.
Jeannette Wilson	26	May 18, 1900	June 10, 1900	Consumption.
Ellen McMahon	77	Feb. 11, 1895	June 17, 1900	Acute Pleuritis.
John H. Schultz	31	June 30, 1900	July 25, 1900	Chronic Alcoholism.
Mary J. Kirk	51	May 4, 1900	Aug. 15, 1900	Pernicious Anæmia.
Charles H Watts	41	Apr. 10, 1874	Sept. 5, 1900	Suicide.
Frances Gorman	50	Jan. 8, 1897	Sept. 9, 1900	Bright's Disease.
Mary McKenna	45	July 20, 1900	Oct. 11, 1900	Cancer.
Philip Mackin	48	Sept. 12, 1896	Nov. 23, 1900	Consumption.

PRODUCTS OF THE FARM WITH THEIR APPROXIMATE VALUES.

300 bushels string beans	$255 00
160 bushels beets	88 00
900 dozen bunches beets	230 00
120 bushels beet greens	14 00
11,000 cabbages	330 00
1,050 cabbage plants	5 25
300 bushels carrots	120 00
600 boxes celery	1,800 00
4,000 celery plants	8 00
3 cows	90 00
600 cucumbers	18 00
1,100 bushels dandelions	765 00
600 dozen eggs	160 00
100 fowls	60 00
1,950 dozen lettuce	580 00
7,000 quarts milk	350 00
200 bushels onions	120 00
400 bushels parsnips	240 00
75 bushels peas	110 00
1,500 pounds pie-plant	30 00
20 bushels peppers	8 00
12,577 pounds pork	753 99
450 dozen radishes	110 00
825 bushels spinach	85 00
7 tons squash	150 00
420 bushels tomatoes	245 00
	$6,725 24

COMPARATIVE TABLE OF ALMSHOUSE, FARM, LEDGE, AND HOUSE OFFAL RECEIPTS FOR TWENTY YEARS ENDING NOVEMBER 30, 1900,

Years.	Board.	Chair Shop.	Farm.	General Sales.	Stone.	House Offal.	Totals.
1881	$322 56	.....	$378 50	.....	$2,529 01	$5,536 88	$8,766 95
1882	705 34	.....	436 54	.....	2,626 17	5,705 22	9,473 27
1883	1,174 96	.....	476 22	$14 19	2,622 00	5,819 55	10,106 92
1884	1,489 93	.....	316 76	.....	4,238 77	6,449 96	12,486 42
1885	2,035 58	.....	335 32	149 85	4,509 84	7,354 26	14,384 95
1886	613 93	$37 50	772 14	319 75	5,611 38	6,926 23	14,280 93
1887	514 64	634 19	1,595 10	241 37	4,684 14	6,856 59	14,526 03
1888	557 28	614 94	2,846 52	213 62	6,662 26	6,721 50	17,617 86
1889	274 84	479 28	3,684 59	144 36	5,564 18	7,324 61	17,471 06
1890	302 49	794 36	4,364 03	150 89	5,651 38	7,386 33	18,649 48
1891	1,201 33	844 62	5,213 68	161 71	6,107 86	7,716 77	21,245 97
1892	1,253 06	899 81	5,371 60	166 45	5,220 50	7,535 57	20,447 55
1893	703 70	325 86	6,400 64	210 09	5,826 74	7,033 52	20,500 05
1894	1,094 89	220 07	6,504 66	615 69	7,955 42	8,218 96	24,609 69
1895	622 77	77 00	6,512 63	160 19	8,265 14	9,045 55	24,682 78
1896	834 52	61 25	5,623 67	147 02	7,639 48	9,155 35	23,461 24
1897	1,294 65	3 60	5,348 47	137 33	10,335 16	7,228 79	24,348 00
1898	1,038 19	.....	5,730 13	277 40	2,172 60	7,264 09	16,482 41
1899	703 17	.....	6,049 47	142 54	.....	6,997 40	13,892 58
1900	611 57	.....	5,082 43	137 40	.....	7,322 05	13,153 45
Totals	$17,340 40	$4,992 48	$73,043 10	$3,389 85	$98,222 03	$143,599 18	$340,587 59

Coincident with a change in the name of our institution, your Board suggested certain improvements which have been made, adding greatly to the comfort and convenience of our people, and bringing the institution nearer to what its new name suggests — a comfortable and well-ordered Home. By careful retrenchment and economy in other items of expenditure, we have been able to devote a portion of our appropriation to the alteration and renovation of the men's dining-room, and also to provide improved bathing facilities for the use of the men.

Our numerous and extensive chimneys have been thoroughly repaired, and our slated roofs have been put in good condition.

The long continued dry weather in mid-summer greatly injured our earlier crops, but the value of our autumnal products prevented any actual loss in the management of the farm.

If the total expense of the farm be deducted from the sum which represents a conservative estimate of the value of farm products for the year, the balance will show a net gain of more than $1,700.

Of the fifty-three adult persons received during the year, thirty-nine or nearly seventy-four per cent., were ill or suffering from injuries when received. Of the twenty-two minor children admitted seven came with their mothers, five came for hospital treatment, four were foundlings, three came because both parents were in prison, one had strayed from

home, one was an epileptic, and one was an illegitimate child abandoned by its mother. The average age of men received was fifty-two and two-thirds years, of women forty-eight and one-half years.

In conclusion permit me to say that the efforts of your Board to improve the physical condition of our people, and to surround them with a more uplifting environment has not been fruitless, but through the agency of faithful officers and employees, and an interested and sympathetic public, a gradual improvement is seen in more orderly conduct, greater contentment, and other evidences of a grateful appreciation of your labors in their behalf.

Respectfully submitted,

MARTIN L. ELDRIDGE,
Superintendent.

REPORT OF THE CITY PHYSICIAN

CAMBRIDGE, MASS., December 1, 1900.

To the Honorable, the City Council of the City of Cambridge : —

GENTLEMEN :—I have the honor to present the following report of the doings of this office for the year ending November 30, 1900 :—

CITY HOME.

Number of visits to the City Home	146
Number of persons treated therein	179
Number of professional visits to same	1,642
Number of deaths	14
Cost of medicines and surgical appliances	$332.11

OUTSIDE AID.

Number of persons attended by direction of Overseers of the Poor	462
Number of professional visits to same	862
Number of examinations as to sanity	144
Number of certificates of insanity issued (including epilepsy, inebriety and dipsomania)	91
Number sent to hospitals for treatment	17
Number of deaths	10
Cost of medicines and surgical appliances	$236.34

DEPARTMENTAL SERVICE AND TOTALS.

Number of persons visited at police stations	29
Number of civil service examinations	51
Number of vaccinations by direction of the School Committee	501
Number of persons examined for the Legal Department	24
Other examinations	5
Total number of persons receiving professional attention	1,251
Total number of visits to same	3,109
Total number of deaths	24
Total number of certificates of death issued	25
Total amount expended for medicines and surgical appliances	$568.45

Respectfully,

LEWIS L. BRYANT,
City Physician.

REPORT OF THE COMMISSIONER FOR THE BOSTON AND CAMBRIDGE BRIDGES

For the Years 1899 and 1900

To the Honorable, the Mayor, and City Council of the City of Cambridge :—

Sirs,—The Commissioner for the Boston and Cambridge Bridges having the charge of Harvard, West Boston, Craigie, Prison Point, Brookline Street, River Street, Western Avenue, and North Harvard or Boylston Street Bridges, submits his annual report of the matters pertaining to said bridges.

HARVARD BRIDGE.

In April and May of this year the roadway for the entire length of the bridge and draw was newly sheathed with two-inch spruce plank, planed on one side to an even thickness. While doing this work the Boston Elevated Railway Company laid new rails of a better kind than the old ones the whole length of the bridge, and sheathed between the tracks and in the tracks. The work was done at night, so as not to interrupt travel; there was very little blockade and no accidents. The work of the company was very satisfactory and done quickly.

The four-inch planking of the deck under the sheathing on the roadway of the bridge was decayed in many places and had to be renewed with four-inch plank. This will have to be done yearly to keep it safe. Cost of sheathing the roadway, $3,187, Boston paying one-half. While doing the work we saved the best of the old plank and put them on the pier to be used this winter for patching; by doing so we make quite a saving.

Teams carrying heavy loads passing over the draw had broken some of the timbers in the roadway; these were replaced by putting in new ones.

A gale of wind that passed over the bridge, July 18, raised the asphalt sidewalk on the up-stream side of the bridge almost the whole length. It looked as if it would have to be taken up and a new sidewalk put in its place, which would cost over $3,000. After examining it carefully, we decided to get it back in place, and did so and filled the cracks and joints with cement. This was done by the draw-tenders employed on

the bridge. With care, it will last some years, or till such time as the flooring under it will have to be renewed.

The sidewalks on the draw, and some of the timbers to support the same, were so much decayed it was necessary to replace them with new material. New sidewalks were laid with hard pine plank two inches thick, planed one side. Part of the capping on the piers connected with the draw was renewed with hard pine timber.

All the iron work from the Boston end of the bridge to the draw has been scraped and thoroughly painted. It is now in good condition and will last some years. The zinc cap and wood work outside of the fence, the entire length of the bridge, has been painted.

The traffic is increasing so fast and so much heavy teaming passing over the bridge it was necessary to clean it twice a week, where heretofore it was cleaned once a week. This bridge is a very great benefit to the cities of Boston and Cambridge, more than the projectors ever thought of. It is in a beautiful location and is used in summer as a promenade by the residents of the Back Bay and others.

Draw-tender and assistants do all ordinary repairs, look after the machinery to run the draw, clean the globes on the electric lights once a week, clean the sidewalks and piers from snow and ice, and do all necessary repairs when needed.

TEMPORARY WEST BOSTON BRIDGE.

The sheathing on this bridge was in such bad condition it was necessary to replank the surface the entire length with two-inch spruce plank. This will have to be done about every year, or in less time. The bridge being narrow and heavy teaming passing over it, it cuts into the planking very quickly. The traffic over this bridge is increasing. The electricity to move the draw is a great improvement over the power that was used to move the draw on the old West Boston bridge.

The draw-tender and assistants take care of the motive power and keep it in good condition, and remove snow and ice from sidewalk and draw piers, and do all necessary repairs.

CRAIGIE BRIDGE.

Placed new timbers the whole length of the outer side of the draw and laid a new sidewalk of two-inch plank on both sides of the draw the entire length. Put hard pine timber on draw pier and covered the surface with two-inch plank.

The end of the draw on the Boston side was in bad condition; to strengthen it, we placed iron plates under the bearing of the wheels and

put in new timber where necessary. The draw and timbers to support the draw will have to be rebuilt in a few years. It requires a close inspection at all times to keep it in place and to avoid accidents. The travel over this bridge by teams is increasing, some carrying very heavy loads; there are about ten thousand a day. The draw being so very narrow, cars and teams cannot pass over it together, and at times it creates quite a blockade, especially when the draw is opened.

The timber and flooring on pier rear of draw-tender's house is so much decayed that it will have to be replaced with new material next summer.

Next year part of the roadway at each end of the bridge will have to be repaired and draw and fences will need painting. Draw-tender and assistants keep the draw and draw pier free from ice and snow, sweep the sidewalks and do all ordinary repairs on machinery, etc.

PRISON POINT BRIDGE.

Built a house twelve by fourteen feet, one story high, fitted up with bunks, etc., for the draw-tenders to occupy. Four-inch plank put on bridge and draw and sheathed over all with two-inch plank; painted house inside and outside; this was done by the draw-tenders.

This bridge and draw is in such an unsafe condition that it is a constant care to keep it safe for travel. There are a great many vehicles passing over it. We thought at one time we would have to close it up; to do so would be a great hardship to the teamsters, as they would have to go a mile or two out of their way to get to Charlestown. We notified the Boston & Maine Railroad this last summer that we would not be responsible for any accident that might occur from the condition of the bridge. We understand the Boston & Maine are going to commence work on the overhead street and bridge running from Bridge Street, Cambridge to Charlestown, this next summer. Before commencing work on the street they will build a temporary bridge and draw further up stream.

Draw-tenders keep the bridge free from snow and ice in winter, at other times they sweep the bridge weekly and do all ordinary repairs.

BROOKLINE STREET BRIDGE.

Sheathed the roadway on both sides where necessary with two inch plank; put on draw pier new caps and covered pier with two-inch plank.

Draw-tenders sweep the bridge once a week and do all ordinary repairs.

RIVER STREET BRIDGE.

Put in new deck plank and sheathed bridge and draw on Boston side; put new cap on piers, spliced out piles near draw and repaired the fender

guard with hard pine timber; laid hard pine floors in draw-tender houses. The houses were painted inside and outside; this was done by the draw-tenders. They also sweep the bridge once a week and keep the bridge and piers free from snow and ice in winter, and keep the machinery in good running order, and do all ordinary repairs.

WESTERN AVENUE BRIDGE.

New deck planks were put in bridge and draw where necessary and the whole sheathed with two-inch plank. Repaired the draw piers, and new ring bolts were secured to pier for fastening vessels. This bridge is cleaned once a week and all ordinary repairs are done by the draw-tenders. The draw-tenders employed to take care of this bridge also have the care of River Street Bridge.

NORTH HARVARD BRIDGE.

Built a small building six by six feet to hold coal; shingled draw-tender's house and sheathed it inside; put in new windows and doors and laid a new floor; painted roof and inside and outside of houses; sheathed the bridge and draw; painted all the fence on bridge and draw; cleaned the bridge once a week. This work was done by the draw-tenders on the bridge, who also did other repairs without any expense to the two cities.

The amount of revenue received for rents, dockage, etc., during the year has been $984.70, one-half of which, $492.35, has been paid to each City.

Respectfully submitted,

WILLIAM J. MARVIN,

Commissioner of Boston and Cambridge Bridges, and Harbor Master on Charles and Miller River and Broad Canal.

REPORT OF THE TRUSTEES OF THE DOWSE INSTITUTE

CAMBRIDGE, December 15, 1900.

To the Honorable, the City Council: —

The Board of Trustees of the Dowse Institute respectfully report that a course of six lectures was given in Union Hall, Cambridgeport, beginning January 2, and ending February 6, 1900.

Like last year, the course was free to the public, and the attendance was very large.

An attested copy of the accounts of the Treasurer is herewith submitted, showing the amount of receipts and expenditures.

FRANK A. ALLEN,
W. A. BULLARD,
GEO. HOWLAND COX,
EDGAR R. CHAMPLIN,
JOHN D. MERRILL,
} *Board of Trustees.*

W. A. BULLARD, TREASURER, IN ACCOUNT WITH DOWSE INSTITUTE.

Dr.		*Cr.*	
1900.		1900.	
To Balance	$23 00	By Cambridge Press, advertising	$10 00
City of Cambridge, interest on fund one year	600 00	Cambridge Chronicle	10 00
		Cambridge Tribune	10 00
		F. M. Buffum, doorkeeper	6 00
		A. F. Buffum, doorkeeper	6 00
		Chas. L. Russell, doorkeeper	6 00
		John Ford, printing	9 00
		Ushers	6 00
		Internal Revenue stamps	50
		Union Hall Association, rent of hall,	180 00
		Robarts Harper, for a lecture	75 00
		Peter McQueen, for a lecture	50 00
		John Fiske, for a lecture	50 00
		Grant Dwight, for a lecture	50 00
		Edw. Everett Hale, for a lecture	50 00
		Dr. J. C. Bowker, for a lecture	50 00
		Balance	54 50
	$623 00		$623 00

ATTEST: W. A. BULLARD,
Treasurer.

REPORT OF INSPECTOR OF ANIMALS

To the Honorable, the City Council: —

Gentlemen: — In compliance with the City Ordinance, I have the honor to present my annual report of Inspector of Animals and Veterinarian for the City of Cambridge, ending November 30, 1900.

The cows of the City have been examined physically for tuberculosis and so far as can be determined by this examination are in a healthy condition, only one being quarantined for tuberculosis, one for actinomycosis.

The number of contagious diseases among the horses has increased greatly. More horses have been killed for glanders during the past year than in any year previous. The disease is not confined to certain portions of the City, but is found in every section.

Total number of horses examined	190
Quarantined	37
Killed	48
Released	2

The horses owned by the City have been in a good condition and free from all contagious diseases. For the care of sick and lame horses I have made 538 visits, examined six cases for Claim Department, examined twenty-eight horses for soundness.

Appropriation		$800 00
Salary	$700 00	
Reycroft Brothers	3 30	
H. Thayer & Co.	11 00	
L. Reycroft	1 25	
A. Cunningham	12 70	
W. A. Claflin	69 60	
Balance on hand	2 15	
		$800 00

Thanking His Honor, the Mayor, and members of the City Council, I am,

Very respectfully yours,

CHARLES E. HADCOCK, M. D. V.,
Inspector of Animals.

REPORT OF THE COMMITTEE ON SOLDIERS' AID.

The Committee on Soldiers' Aid submits to the City Council its report for the year ending November 30, 1900 :—

The amount paid as regular State Aid was	$13,525 00
The amount paid to indigent soldiers and sailors was	1,204 00
The amount paid as soldiers' relief was	7,386 00
The amount paid for the burial of deceased indigent or friendless soldiers or sailors was	805 00
The amount paid to the clerk and agent employed in the examination of settlements, etc., was	900 00
Printing and stationery	111 02
Aid by cities and towns	106 00
Board and care of sundry persons	1,151 31
Car tickets	15 00
Fuel	105 15
Sundry supplies	93 40
Typewriting	12 00
Total	$25,413 88

The amount received from the Commonwealth was	$15,997 73
The amount received from other towns and cities was	334 59
For sundry authorized payments which were not paid	197 50
Total	$16,529 82

There are now upon the State Aid list 273 persons, and upon the list of indigent soldiers and sailors 10. The number of persons upon the soldiers' relief list is 106.

All of which is respectfully submitted,

WILLIAM E. DOYLE,
HANS L. CARSTEIN,
HAMILTON H. PERKINS,
JOHN J. AHERN,
GEORGE E. SAUNDERS,
Committee on Soldiers' Aid.

REPORT OF INSPECTOR OF MILK

From December 1, 1899, to November 1, 1900

To His Honor, the Mayor, and the City Council of the City of Cambridge: —

Gentlemen: — I have the honor to present the following report of the Department of Milk Inspection.

The work in this department has been carried on this last year in much the same manner as described in previous reports. The principal part of the work consists as heretofore, in the collection and analysis of samples of the milk offered for sale throughout the City, in the stores and on the milk teams, and also in the collection and analysis of samples of vinegar and butter wherever these articles of food are found for sale; but as milk is of so much the greatest consequence, most of the work is naturally devoted to its inspection.

The average quality of the samples collected has been on the whole quite satisfactory, and the proportion of samples found to be not of standard quality has been fully as low as for several years past. The present law requires milk to contain 13 per cent. of milk solids and 3.7 per cent. of fat from the first of October to the first of April, while for the other six months only 12 per cent. of milk solids and 3 per cent. of fat are called for. Doubtless this low summer standard permits a certain amount of adulteration, which generally consists in the addition of a certain amount of skimmed milk, and this can be done to milk of average quality and still keep it up to the summer standard; in the winter, however, it can hardly be done to milk of only average quality without bringing it below the necessary 13 per cent. of milk solids and 3.7 per cent. of fat.

The present milk law was passed in much its present shape in 1882, and for several years whatever alterations were made in it were designed to make it more strict in its requirements rather than less strict; for the last few years, however, there has been a decided tendency to make it less strict. At first there was no difference made in the standard of milk at any time of year, then it was reduced to the present summer standard for the months of May and June. Some years later the months April, July and August were added, and a year ago the month of September as well, so that at present the original standard of 13 per cent. is required for only half the year. I have always thought the original standard of 13 per cent. was none too high and should be continued throughout the whole year, 12 per cent. I am sure is too low, and permits a certain amount

of adulteration as stated above. As a farmer once said to me, — "If a man has a cow which will not give milk containing 13 per cent. of milk solids, he had better sell her to the butcher and get one which will."

In addition to this reduction in the required standard, last winter the following change was made in the penalty for selling milk below the standard: "Whoever sells, exchanges or delivers, or has in his custody or possession with intent to sell, exchange or deliver milk not of good standard quality, shall for a first offence be punished by a fine not exceeding fifty dollars." Previously the penalty was a fine of not less than fifty nor more than one hundred dollars.

As most of the cases brought into Court are for a first offence, and nearly all are for milk not of good standard quality, the result is that while in former years a fine of fifty dollars was generally imposed, the sentence now is a fine of twenty or thirty dollars, quite a material reduction in the penalty. This new law has not been in operation long enough for me to see how it will work, as but few milk dealers seem to be aware that any change has been made. I should suppose, however, that when it becomes well known it would mean that more cases would have to be taken into Court than heretofore, in order to get the same result; however, this can only be told by the experience of the next few years. If any change in the penalty was necessary, it seems to me it would have been better to simply reduce the minimum fine for a first offence, leaving the maximum fine one hundred dollars as before, so that the statute should read, — "a fine of not more than one hundred dollars," or "a fine of not less than ten nor more than one hundred dollars."

This change applies only to milk not of good standard quality, and no change is made in the fine for selling adulterated milk or milk to which water or any foreign substance has been added, or milk produced from cows fed on the refuse from distilleries, or from sick or diseased cows, or as pure milk, — milk from which a part of the cream has been removed. Doubtless this change may have been intended, and probably was represented as intended, to apply only to milk produced by cows which for some reason did not give milk of standard quality, although they were neither sick nor diseased, nor fed on distillery refuse.

Now, in the great majority of cases where a complaint is brought in Court, the milk has been skimmed or watered, or skimmed milk has been added to it in such quantity as to bring it below the standard, but it is practically impossible to prove that such is the case, although the Inspector may have very little doubt of it in his own mind; about the only way it could be proved would be to produce some one as a witness who had seen it done, and this is almost never possible. Therefore the complaint is always made in these cases that the milk is not of good standard

quality, and it is then only necessary to produce the analysis in order to prove the assertion; and when asked to explain the analysis, the Inspector can say that it shows the probable addition of water or skimmed milk, or that the original milk had probably been skimmed; he is not, however, asked to prove that this is so, the fact that the analysis shows the given sample of milk to be not of good standard quality being sufficient. So this change in the law will probably include nine out of every ten cases brought into Court, and really means a large reduction in the fine for selling poor milk.

A good many of the smaller milk routes have been sold out this year, which has made I think a decided improvement in the class of men carrying on this business; there has been no reduction, however, in the number of stores selling milk, it can still be bought, such as it is, in every corner grocery or bake shop, and this milk is the oldest and poorest of any sold in the City; a large proportion of the samples have to be taken from such places, and most of the samples which show loss of cream come from them, owing to the primitive method of selling milk from eight-quart cans. It is nearly impossible to mix milk properly without turning out the contents of an eight-quart can into another empty can, and then turning it back into the original one. This should really be done before each sale, but though it may be done once when commencing to sell from a full can, it is never done a second time, and in consequence the last quart of milk sold from a can rarely has as much cream as the first quart. In many of the stores two or three eight-quart cans are emptied into a large crock surrounded by ice, and the milk is sold from this by means of a long handled dipper. So long as both crock and dipper are kept properly clean this makes the best way I know for selling milk, as the dipper keeps the contents of the can mixed up all the time.

About the usual number of samples of vinegar have been collected and analyzed, and nothing new has arisen in this branch of the work, most of the samples sold as cider vinegar have conformed to the requirements of the statute, and those samples sold simply as vinegar have mostly contained the required amount of acetic acid; no harmful substance has been found in any of the samples, and when they have not conformed to the standard, the fault has been either in a lack of acidity or too small an amount of cider vinegar solids. All the manufactured vinegar is artificially colored to give it the ordinary brown color, it being clear, like water, as originally made, but this does not seem to be forbidden by the statute, and consequently no complaint is made of the practice.

No sample of oleomargarine has been found among the butter samples collected, and no one has taken out a license for its sale; the amount sold in this City must be quite small.

The annual appropriation for this department was $1,500.00. The manner in which it has been spent and the amount of work done is shown in the following table :—

Appropriation		$1,500 00
Salaries	$1,210 00	
Paid for milk and butter samples	41 68	
Paid for car tickets	30 00	
Stationery, etc.,	11 98	
General expenses	66 83	
Balance	139 51	
		$1,500 00

Number of annual milk licenses issued	155
Number of store milk licenses issued	122
Amount collected from sale of licenses	$138.50
Number of samples collected and analyzed	3,352
" milk samples collected and analyzed	3,174
" vinegar samples collected and analyzed	142
" butter samples collected and analyzed	36
" milk samples below the standard	252
" vinegar samples below the standard	12
" butter samples not genuine butter	..
" warnings sent for sale of poor milk	162
" warnings sent for sale of poor vinegar	4
" complaints made in court	7
" convictions	7
Amount of fines imposed	$220.00

Respectfully submitted,

FRANK A. DUNBAR,
Inspector of Milk.

REPORT OF INSPECTOR OF MILK

December 1, 1900.

To His Honor, the Mayor, and the City Council of the City of Cambridge :—

Gentlemen :—I have the honor to present the report of the Department of Milk Inspection for the year ending November 30, 1900.

Dr. Frank A. Dunbar, who has held the office of Inspector of Milk and Vinegar since May, 1885, resigned in October but continued the work of the office up to October 19. On November 3 Philip P. Sharples, the present incumbent, was appointed by the Mayor and confirmed by the Board of Aldermen as Inspector.

Since I have directed the work of the office several changes in methods have been introduced. The use of the hydrometer and lactometer has been discontinued and the more accurate Babcock test substituted. The actual percentage of fat in every sample is now accurately determined and those samples which fall below the standard are further analyzed for total solids.

With an increase in the appropriation for this department sufficient to cover the expense of the necessary apparatus, it is proposed to determine the solids in all samples of milk, as it is possible, now, to water a milk very rich in fat and still have it go undetected. The samples of milk have also been tested for preservatives and for coloring matter during the month of November, but no adulterated sample was found.

Vinegars have been tested for acidity and solids and also to determine whether the sample has been made from cider. Few samples are found which do not conform to the law.

An entirely new system of keeping the records has been introduced which, for the short time which has elapsed since it was introduced has worked admirably. A card catalogue of all stores and milkmen has been made out on cards printed in the following form :—

LIC.

Date.	No.	Fat.	Solids.	Can.	

The system accomplishes several very desirable results. Any unlicensed vendor is detected at once, while the quality of milk sold by any individual and the number of samples taken from him are seen at a glance. Added to these are the general attributes of the card system, perfect elasticity and a strict alphabetical order.

In order that this department may work at its full efficiency I recommend that the annual appropriation be increased by $200. Of this, $80 should be used to increase the salary of the deputy collector, who is required at present to give much more time and attention to the work than ever before, and $120 should be spent for new apparatus which is imperatively needed for the sake of accuracy and rapidity of analysis.

The following statistics are compiled from the records of the office :—

Appropriation		$1,500 00
Salaries	$1,320 00	
Samples	60 97	
Printing	36 75	
Apparatus and chemicals	34 77	
Car tickets	30 00	
Stationery	14 88	
Carriage hire	2 00	
Balance unexpended	63	
		$1,500 00

Number of annual licenses granted	156
" " store " "	142
Total number of stores on record December 1	359
Amount collected from sale of licenses	$149 00
Number of milk samples analyzed	3367
" " " " below the standard	313
" " warnings sent for sale of poor milk	172
" " vinegar samples analyzed	168
" " " " below the standard	15
" " warnings sent for sale of poor vinegar	5
" " complaints made	6
" " convictions	5
Amount of fines imposed	$170 00

Respectfully submitted,

PHILIP P. SHARPLES,

Inspector of Milk.

REPORT OF THE SEALER OF WEIGHTS AND MEASURES

OFFICE OF SEALER OF WEIGHTS AND MEASURES,
CAMBRIDGE, December 1, 1900.

To the Honorable, the City Council:—

I have the honor of submitting the report of the Department of Weights and Measures for the year ending November 30, 1900.

Amount of appropriation		$1,700 00
Amount of revenue received	$498 00	

EXPENDED.

For salaries:—		
Sealer, A. F. Roberts	$1,083 37	
Assistants:—		
E. H. Harnden	118 75	
Edward Dowling	22 50	
F. B. Williams	20 00	
F. B. Lake	21 25	
J. C. Connors	81 25	
Repairs on wagons	23 26	
Board of horse, horse shoeing, care of wagons and harnesses at City stable, Raymond Street	229 50	
Repairs on harnesses	3 85	
Stamps and burning brands	6 75	
Publishing annual notice	06	
Boston Elevated Railway (car tickets)	10 00	
City Messenger, stationery, postage stamps, etc. (for two years)	11 85	
Printing postal cards, notice to milkmen	1 50	
Acid for marking glass bottles	6 00	
Cambridge directory	3 00	
Lumber for City scales	14 78	
F. A. White, paint, oil, nails, etc.	4 87	
Chapman Carriage Company, shaft, straps and leathers	3 50	
Repairs on Yale lock	50	
Fairbanks Company, repairs on City scale	30 33	
J. Forge & Son, ¼ ring bit	1 60	
		$1,694 97
Unexpended balance		$5 03

Whole number of scales, weights and measures inspected	52,397
Whole number of scales, weights and measures condemned	3,194
Whole number sealed	49,203
Whole number found incorrect and adjusted	428

"A false balance is an abomination to the Lord, but a just weight is his delight."

The question is often asked, "What does the Sealer of Weights and Measures have to do?" I might answer the question by asking another, "What does not the Sealer of Weights and Measures of Cambridge have to do?"

To answer the question in full would take much time and space. In brief, the Sealer of Cambridge has to visit annually every store and manufacturing establishment in the City where scales, weights and measures are used for buying or selling goods and test the same by the authorized standards, and if correct, seal them accordingly; if incorrect, adjust them if it can readily be done, if not, attach an official card which forbids the use of the same until made to conform to the authorized standard. If beyond repairs they are stamped "Condemned" or "C.D." by the Sealer and no person is thereafter allowed to use such scales, weights or measures. This work occupies the time of the Sealer and his assistant about seven months of the year. From January until May the office of the Sealer is open for those who will bring their scales, weights and measures to be sealed, for which no fee is charged, which, of course, reduces the revenue of the department very materially.

The junk collectors are under his immediate inspection and there are between fifty and sixty of them, and before a license is granted to any of them the Sealer is expected to look them up and report to the Committee on Licenses.

Much time is consumed in following up the hawkers and pedlers who do business on the public streets. As I have said in my previous reports, many of them are good, reliable citizens, property-holders and tax-payers, and are trying to do a straight, honest, legitimate business. There are others who do not scruple to resort to all sorts of devices to defraud the public by the use of false and illegal measures, and it is this class of hawkers that gives the Sealer the most trouble; many of this class have been caught in their nefarious business and have paid the penalty of the law. As I have heretofore recommended, there should be an ordinance requiring all hawkers and pedlers to take out a permit before they are allowed to do business upon our streets, thus protecting our Cambridge citizens.

Charcoal pedlers are under the immediate inspection of the Sealer. Baskets or measures in which charcoal is sold are required to be inspected and sealed the same as other measures. Many short charcoal measures have been seized by the Sealer and prosecutions made, the result of which the City is pretty well rid of short measures in this particular business.

Milkmen are obliged to have all of their cans and bottles in which milk is delivered to customers sealed as measures, and as there are from

one to two hundred milkmen who do business in our City, much of the Sealer's time is consumed in sealing cans and bottles. This work is done at the office of the Sealer.

The Sealer is frequently called upon to settle disputes in regard to the weight of an article, the standard scales in the office being used for that purpose.

The inspection of apothecaries' prescription scales and weights is the most important of all the work which the Sealer has to perform. It is of great importance to a patient who is obliged to take poison by the order of a physician whether he gets one grain or two in his prescription. Many prescription scales have been ordered not to be used until put in proper condition, because of a variation of nearly a grain in their weight. When one-tenth of a grain of poison is an average dose ordered by a physician it is of the utmost importance that the scales and weights by which it is weighed should be as correct as possible.

Until this year the Sealer of Cambridge has had the privilege of selecting his own help. Upon the question being raised as to the application of the Civil Service Rules in the matter of an assistant to the Sealer, the Civil Service Commission ordered an examination for the position, in consequence of which there have been four different men this year serving in that capacity, one working four months, one a little over one month, one eight and one-half days and one eight days. As a result of this the Sealer has had to do much of the work alone.

There is much of the work that requires quite a good deal of experience to be able to perform and some of the work does not require much of an expert. What assistance the Sealer has had this year has been as good as could be expected from the fact that the four men employed, all of whom having had no experience, have done whatever has been asked of them.

In conclusion I would again recommend that an ordinance be passed obliging all hawkers and pedlers to take out a permit to do business on our streets and that they be citizens of Cambridge; that more stringent methods be used in reference to the junk collectors.

The Sealer of Cambridge, like all other men, is human and liable to err and may have made mistakes, but he has tried to do his duty.

I am very grateful to His Honor, the Mayor, for his patience and courtesy to me during the past year, to the heads of the different departments and all of my associates at the City Hall for the general brotherly feeling expressed, and to my several assistants I express my appreciation of their services.

Respectfully submitted,

ALBERT F. ROBERTS,
Sealer of Weights and Measures.

REPORT OF THE SCHOOL COMMITTEE FOR 1900

In compliance with Section 45 of the Rules of the School Board, the Superintendent herewith submits his twenty-sixth annual report, it being for the year ending December 31, 1900.

POPULATION OF CAMBRIDGE.

1875	47,838	1895	81,643
1885	59,658	1900	91,886

SCHOOL CENSUS.

Number of children in the city five years old or more, but less than fifteen.

1885 (taken in May)	10,957	1895 (taken in May)	12,869
1890 (taken in May)	11,971	1900 (taken in September)	15,131

SCHOOLS AND CLASSROOMS.

Latin School	1	Classrooms in use	14
English High School	1	" " "	11
Manual Training School	1	" " "	4
Grammar Schools	7	" " "	94
Primary Schools	19	" " "	95
Grammar and Primary Schools	9	" " "	94
Kindergartens	13	" " "	13
Evening Drawing Schools	2	" " "	5
Evening High School	1	" " "	9
Evening Elementary Schools	4	" " "	16
Whole number of Day Schools			51
Number of classrooms for Day Schools			325

HIGH SCHOOLHOUSES.

Schoolhouses	Number of Classrooms	Erection of Building	Size of Lot, Square Feet	Valuation of Land	Valuation of Building	Valuationof Furniture
Latin	15	1897	79,759	$43,800	$225,000	$27,150
English High	11	1891	74,366	40,900	220,000	9,220
Manual Training	4	1887	81,128	44,000	56,000	8,000
Total	30		235,253	$128,700	$501,000	$44,370

GRAMMAR SCHOOLHOUSES.

Schoolhouses	Number of Classrooms	Erection of Building	Size of Lot, Square Feet	Valuation of Land	Valuation of Building	Valuation of Furniture
Agassiz	7	1875	19,689	$8,000	$20,000	$1,215
Allston	12†	1857‡	15,193	4,600	30,000	1,795
Ellis	12†	1898	25,700	6,000	48,000	2,993
Harvard	16†	1871§	20,494	12,000	65,000	3,769
Morse	14†	1890	25,650	7,000	73,000	2,040
Peabody	14†	1888‡	21,813	9,800	68,000	3,340
Putnam	13†	1847§	14,400	9,800	64,500	2,550
Roberts	12†	1898	16,400	12,000	48,000	3,003
Russell	10†	1896	33,073	6,000	40,000	2,440
Shepard	11	1856‡	14,755	11,000	26,000	1,047
Sleeper	8	1894	21,284	5,000	24,000	1,190
Taylor	10†	1895	23,592	6,000	36,000	1,720
Thorndike	12	1860‡	10,027	4,000	30,000	1,676
Washington	12	1851‡	14,951	10,000	25,000	1,830
Webster	16†	1852‡	25,839	9,000	50,000	3,550
Wellington*	13†	1884‡	27,673	8,300	52,000	2,635
Total	192		330,533	$128,500	$699,500	$36,793

* This includes another schoolhouse on the same lot containing four rooms used for primary classes.
† Also an assembly hall. ‡ Has been remodelled. § Has been rebuilt.

PRIMARY SCHOOLHOUSES.

Schoolhouses	Number of Classrooms	Erection of Building	Size of Lot, Square Feet	Valuation of Land	Valuation of Building	Valuation of Furniture
Boardman	8	1868	10,018	$4,000	$13,000	$1,290
Corlett*	2	1880†	10,000	1,200	3,000	195
Cushing	2	1880†	14,787	1,500	3,000	136
Dunster	4	1857‡§	10,000	3,000	3,000	261
Felton	4	1848§	15,090	4,500	6,000	200
Gannett	5	1886	15,434	3,000	12,000	430
Gore	12	1871§	9,900	4,000	50,000	825
Holmes	4	1870	11,182	5,000	5,500	275
Lassell	4	1880	10,000	3,000	8,000	272
Lowell	4	1883	12,033	3,600	5,500	402
Merrill	8	1864	37,828	19,000	45,000	1,425
Otis	8	1859§	8,270	4,000	20,000	930
Parker	6	1893	12,319	7,000	15,000	710
Reed	4	1868	12,000	1,200	4,000	310
Riverside	4	1868	11,198	3,000	5,000	330
Sargent	4	1838§	9,995	5,000	3,000	255
Stearns	4	1843	10,050	5,000	3,000	322
Tarbell	4	1882	19,500	4,900	7,000	355
Willard	12	1870	20,079	7,000	25,000	1,350
Wyman	6	1871§	14,347	4,500	5,000	555
Primary, Total	109		274,030	93,400	241,000	10,828
Grammar, "	192		330,533	128,500	699,500	36,793
High, "	30		235,253	128,700	501,000	44,370
Total	331		839,816	$350,600	$1,441,500	$91,991

* Used for a kindergarten.
† Purchased.
‡ Moved to its present site.
§ Has been remodelled.

NUMBER OF TEACHERS IN THE DAY SCHOOLS.

[Special teachers are included in the total.]

December	Latin School	English High School	Manual Training School	Grammar Schools	Primary Schools	Kinder-gartens	Total
1896	15	21	Became a public school, Jan. 1, 1899.	151	124	17	337
1897	16	23		157	127	22	354
1898	16	23		161	133	22	364
1899	19	23	14	170	138	24	396
1900	22	24	14	173	142	26	409

ATTENDANCE AT ALL THE DAY SCHOOLS.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1896	13,992	11,957	11,068	92.6
1897	14,373	12,317	11,397	92.5
1898	15,026	12,907	11,978	92.8
1899	15,753	13,255	12,285	92.6
1900	16,203	13,816	12,684	91.8

ATTENDANCE AT THE LATIN SCHOOL.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1896	411	373	351	94.2
1897	387	358	339	94.5
1898	398	362	343	94.7
1899	398	371	351	94.8
1900	430	404	385	95.2

ATTENDANCE AT THE ENGLISH HIGH SCHOOL.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1896	733	632	611	96.6
1897	714	644	622	96.7
1898	773	685	662	96.7
1899	794	688	666	96.7
1900	572	514	491	95.6

ATTENDANCE AT THE MANUAL TRAINING SCHOOL.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1900	212	192	183	95.5

ATTENDANCE AT THE GRAMMAR SCHOOLS.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1896	6,069	5,439	5,105	93.9
1897	6,318	5,682	5,351	94.2
1898	6,570	5,883	5,548	94.3
1899	7,008	6,107	5,738	93.9
1900	7,192	6,295	5,891	93.6

ATTENDANCE AT THE PRIMARY SCHOOLS.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1896	6,138	5,117	4,680	91.4
1897	6,308	5,192	4,741	91.3
1898	6,505	5,429	4,984	91.8
1899	6,750	5,514	5,071	91.9
1900	6,888	5,788	5,267	91.0

ATTENDANCE AT THE KINDERGARTENS.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1896	641	396	321	81.2
1897	646	441	344	78.1
1898	780	548	441	80.4
1899	803	575	459	79 9
1900	909	623	467	74.9

NUMBER OF PUPILS ADMITTED TO THE LOWEST GRADE OF THE LATIN SCHOOL.

Course, 5 years.

Year	Boys	Average Age	Girls	Average Age
1896	47	14 years 4 months	54	14 years 6 months
1897	61	14 years 7 months	52	14 years 7 months
1898	49	14 years 8 months	56	14 years 3 months
1899	58	14 years 5 months	51	14 years 4 months
1900	84	14 years 5 months	70	14 years 5 months

NUMBER OF PUPILS GRADUATED FROM THE LATIN SCHOOL.

Course, 5 years.

Year	Boys	Average Age	Girls	Average Age
1896	16	18 years 0 months	18	18 years 6 months
1897	21	19 years 1 month	14	18 years 6 months
1898	16	18 years 1 month	27	18 years 3 months
1899	16	18 years 3 months	27	18 years 5 months
1900	20	18 years 11 months	19	18 years 11 months

NUMBER OF PUPILS ADMITTED TO THE LOWEST GRADE OF THE ENGLISH HIGH SCHOOL.

Year	Boys	Average Age	Girls	Average Age
1896	61	14 years 7 months	131	15 years 2 months
1897	57	14 years 9 months	150	15 years 0 months
1898	60	14 years 8 months	169	15 years 1 month
1899	61	15 years 0 months	152	15 years 0 months
1900	56	15 years 5 months	170	15 years 1 month

NUMBER OF PUPILS GRADUATED FROM THE ENGLISH HIGH SCHOOL.

Year	Boys	Average Age	Girls	Average Age
1896	12	18 years 7 months	50	18 years 4 months
1897	14	18 years 1 month	56	18 years 9 months
1898	19	18 years 9 months	64	18 years 5 months
1899	14	18 years 4 months	45	18 years 6 months
1900	23	18 years 2 months	45	18 years 8 months

NUMBER OF PUPILS ADMITTED TO THE LOWEST GRADE OF THE MANUAL TRAINING SCHOOL, WITH THE NUMBER OF GRADUATES.

Year	Admitted	Average Age	Graduated	Average Age
1896	59	15 years 6 months	10	18 years 6 months
1897	84	15 years 4 months	20	18 years 6 months
1898	70	15 years 5 months	14	18 years 2 months
1899	92	15 years 3 months	13	18 years 6 months
1900	74	15 years 0 months	16	19 years 0 months

NUMBER OF PUPILS GRADUATED FROM THE GRAMMAR AND PRIMARY SCHOOLS.

Year	Grammar Schools. Course, 6 yrs.	Average Age	Primary Schools. Course, 3 yrs.	Average Age.
1896	467	14 years 10 months	1,273	9 years 9 months
1897	521	14 years 11 months	1,292	9 years 9 months
1898	518	15 years 0 months	1,395	9 years 8 months
1899	553	15 years 0 months	1,393	9 years 8 months
1900	582	14 years 11 months	1,423	9 years 7 months

LENGTH OF TIME IN COMPLETING THE COURSE OF STUDY IN THE GRAMMAR SCHOOLS.

Year	In 4 years	In 5 years	In 6 years	In 7 years or more
1896	8 per cent	33 per cent	49 per cent	10 per cent
1897	6 per cent	30 per cent	51 per cent	13 per cent
1898	6 per cent	29 per cent	47 per cent	18 per cent
1899	6 per cent	31 per cent	47 per cent	16 per cent
1900	6 per cent	28 per cent	50 per cent	16 per cent

LENGTH OF TIME IN COMPLETING THE COURSE OF STUDY IN THE PRIMARY SCHOOLS.

Year	In 2 years	In $2\frac{1}{2}$ years	In 3 years	In $3\frac{1}{2}$ years	In 4 years	In $4\frac{1}{2}$ years or more
1896	7 per cent	2 per cent	60 per cent	3 per cent	21 per cent	7 per cent
1897	2 per cent	3 per cent	63 per cent	4 per cent	21 per cent	7 per cent
1898	4 per cent	2 per cent	59 per cent	6 per cent	20 per cent	9 per cent
1899	3 per cent	4 per cent	58 per cent	7 per cent	20 per cent	8 per cent
1900	2 per cent	2 per cent	59 per cent	6 per cent	22 per cent	9 per cent

NUMBER OF PUPILS IN THE LATIN SCHOOL DECEMBER, 1900.

Grade	Boys	Girls	Total	Per cent
Fourteenth	26	38	64	.134
Thirteenth	31	40	71	.148
Twelfth	37	56	93	.195
Eleventh	43	43	86	.180
Tenth	89	75	164	.343
Total	226	252	478	

NUMBER OF PUPILS IN THE ENGLISH HIGH SCHOOL, DECEMBER, 1900.

Grade	Boys	Girls	Total	Per cent
Thirteenth	21	56	77	.141
Twelfth	30	77	107	.196
Eleventh	36	107	143	.262
Tenth	55	164	219	.401
Total	142	404	546	

NUMBER OF PUPILS IN THE MANUAL TRAINING SCHOOL, DECEMBER, 1900.

Grade	Boys	Girls	Total	Per cent
Thirteenth	33	This school is for boys only. It became a part of the public school system, January 1, 1899.		.163
Twelfth	36			.177
Eleventh	63			.310
Tenth	71			.350
Total	203			

NUMBER OF PUPILS IN THE GRAMMAR SCHOOLS, DECEMBER, 1900.

Grade	Boys	Girls	Total	Per cent
Ninth	219	289	508	.077
D	46	52	98	.015
Eighth	335	376	711	.107
C	68	75	143	.021
Seventh	490	509	999	.150
Sixth	540	534	1,074	.162
B	111	153	264	.040
Fifth	589	578	1,167	.176
A	143	207	350	.053
Fourth	686	636	1,322	.199
Total	3,227	3,409	6,636	

NUMBER OF PUPILS IN THE PRIMARY SCHOOLS, DECEMBER, 1900.

Grade	Boys	Girls	Total	Per cent
Third	788	841	1,629	.277
Second	881	886	1,767	.301
First	1,269	1,211	2,480	.422
Total	2,938	2,938	5,876	

NUMBER OF PUPILS AND TEACHERS IN THE KINDERGARTENS.

Year	Boys	Girls	Total	Number of Teachers
1898	265	339	604	22
1899	331	337	668	24
1900	337	356	693	26

NUMBER OF PUPILS BELONGING TO THE EVENING DRAWING SCHOOLS, WITH THE AVERAGE ATTENDANCE.

1895	1896	1897	1898	1899	1900
212	193	209	182	194	184
117	103	114	99	99	99

NUMBER OF PUPILS BELONGING TO THE EVENING SCHOOLS, WITH THE AVERAGE ATTENDANCE.

1895	1896	1897	1898	1899	1900
1,246	1,128	1,225	1,165	1,158	1,248
478	445	448	494	452	420

NUMBER OF PUPILS IN THE PRIVATE SCHOOLS IN CAMBRIDGE, INCLUDING THOSE IN THE PAROCHIAL SCHOOLS.

1895	1896	1897	1898	1899	1900
2,557	2,518	2,512	2,637	2,713	3,004

NUMBER OF AGE AND SCHOOLING CERTIFICATES ISSUED.

1895	1896	1897	1898	1899	1900
277	289	229	291	324	380

COST OF INSTRUCTION IN THE DAY SCHOOLS.

[Salaries of teachers, superintendent, supervisor, agent, clerks, and truant officers.]

Year	Number of Teachers in December	Average Number of Pupils	Whole Cost	Cost per Pupil
1876	176	7,066	$164,818 00	$23 32
1878	173	7,028	136,491 20	19 42
1880	182	7,175	130,371 75	18 17
1882	200	7,898	137,328 55	17 38
1884	216	8,414	152,290 62	18 09
1886	233	9,218	165,277 42	17 92
1888	241	9,756	175,773 80	18 02
1890	263	10,089	190,558 21	18 89
1892	284	10,861	207,144 22	19 07
1894	312	11,166	228,873 48	20 50
1896	337	11,957	245,104 01	20 50
1897	354	12,317	255,397 92	20 73
1898	364	12,907	268,182 97	20 78
1899	396	13,255	305,744 87	23 06
1900	409	13,816	326,512 34	23 63

COST OF THE DAY SCHOOLS.

[This includes the cost of instruction, of text-books and supplies, of incidental expenses, of the care of truants, and the care and repair of schoolhouses.]

Year	Number of Teachers in December	Average Number of Pupils	Whole Cost	Cost per Pupil
1876	176	7,066	$200,894 09	$28 43
1878	173	7,028	162,437 77	23 11
1880	182	7,175	153,967 56	21 45
1882	200	7,898	166,230 52	21 04
1884	216	8,414	203,234 56	24 15
1886	233	9,218	207,536 46	22 51
1888	241	9,756	225,408 57	23 10
1890	263	10,089	241,980 84	23 98
1892	284	10,861	266,651 02	24 55
1894	312	11,166	287,137 37	25 72
1896	337	11,957	316,090 83	26 44
1897	354	12,317	327,319 90	26 57
1898	364	12,907	345,566 30	26 77
1899	396	13,255	389,915 63	29 41
1900	409	13,816	417,554 00	30 22

COST OF INSTRUCTION IN THE EVENING SCHOOLS.

Year	Elementary	High	Drawing	Total
1895	$2,427 00	$1,422 50	$1,255 00	$5,104 50
1896	2,104 00	1,321 50	1,110 00	4,535 50
1897	2,086 00	1,274 50	1,060 00	4,420 50
1898	2,324 00	1,439 00	1,091 00	4,854 00
1899	2,570 00	1,499 00	1,206 00	5,275 00
1900	3,375 00	1,874 00	1,430 00	6,679 00

FINANCES.

[For the financial year ending December 1, 1900.]

Cost of instruction in day schools	$326,512 34
Cost of instruction in evening schools	6,679 00
Cost of care and repair of schoolhouses, day schools	68,537 60
Cost of care and repair of schoolhouses, evening schools	1,684 68
Cost of text-books and supplies	18,998 90
Expended for incidentals	1,598 96
Expended for care of truants	1,704 20
Expended for flags	202 00
Expended for vacation schools	1,996 11
Expended for Harvard schoolhouse	23,204 98
Expended for furniture for Harvard schoolhouse	3,197 65
Expended for furniture for Latin schoolhouse	1,735 08
Expended for English high school hall	900 13
Expended for land for new schoolhouse, Ward 1	12,800 00
Expended for sundries for new schoolhouse in Ward 1	15 47
Expended for remodelling Felton schoolhouse	11,053 37
Expended for sanitary improvements in Gore schoolhouse	8,855 52
Expended for sanitary improvements in Wellington schoolhouse	10,188 06
Expended for improvements in sanitary arrangements in other schoolhouses	676 48
	$500,540 53
Deduct from the above the amount received from the Hopkins Fund, $710.56, the tuition of State Wards, $480.50, and the tuition of non-resident pupils, $4,508.42, less a rebate of $12.50	5,686 98
The actual cost of the schools to the city is	$494,853 55
Assessed value of real and personal estates, May, 1900	$94,465,930 00
Ratio of expenditure for school purposes to the valuation of 1900	.0052

STATISTICS TAKEN FROM THE SIXTY-FOURTH ANNUAL REPORT OF THE SECRETARY OF THE STATE BOARD OF EDUCATION.

Number of cities and towns: cities, 33; towns, 320	353
Number of public schools	10,440
Number of pupils of all ages in the public schools during the year	474,891
Number of persons over fifteen years of age attending the public schools	44,754
Per cent of attendance based upon the average membership	92
Number of persons employed as teachers in the public schools during the year: men, 1,196; women, 12,379	13,575
Number of teachers who have graduated from normal schools	4,905
Average number of months the public schools have been kept for the entire year	9 mos., 9 days
Number of high schools	261
Number of teachers in high schools	1,487
Number of pupils in high schools	40,592
Amount expended upon the public schools, exclusive of the expense of school buildings	$10,677,485 74
Cost of new schoolhouses, permanent improvements, and ordinary repairs	3,148,757 67
Entire expenditure for public school purposes	$13,826,243 41

TABULAR VIEW.

December 31, 1900.

Prepared by the Secretary of the School Committee.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1900
Latin	William F. Bradbury	$3,000	478
	Theodore P. Adams	2,000	
	John I Phinney	2,000	
	Max Benshimol	1,200	
	Helen M. Albee	950	
	Constance Alexander	950	
	Mabel V. Arnold	500	
	Mary A. Bachelder	900	
	Alice C. Baldwin	950	
	Isabel S. Burton	850	
	Alice D. Chamberlain	500	
	Etta L. Davis	600	
	Caroline Drew	950	
	Mary C. Hardy	950	
	Rose Hardwick	950	
	Mabel E. Harris	850	
	Helen W. Munroe	850	
	Louisa P Parker	950	
	Lena G. Perrigo	850	
	Lucile C. Reynolds	600	
	Ethel V. Sampson	600	
	Jennie S. Spring	950	
	Annie S. Dodge*	550	
English High	Ray Greene Huling	3,000	546
	Edwin L. Sargent	2,000	
	Joseph A. Coolidge	1,600	
	Russell T. Greene, Jr.	1,200	
	Grace L. Deering	1,200	
	Helen E. Andrews	850	
	Susan P. Choate	800	
	Caroline Close	950	
	Bertha L. Cogswell	950	
	Gertrude H. Crook	900	
	Mary L. Cunningham	500	
	Esther S. Dodge	850	
	Agnes B Goerwitz	750	
	Jeannie B Kenrick	600	
	Maud A. Lawson	950	
	Henrietta E. McIntire	950	
	Mary Moulton	950	
	Lillian C. Rogers	950	
	Caroline A Sawyer	950	
	Emma A. Scudder	950	
	Florence W. Smith	900	
	Martha R. Smith	950	
	Delia M. Stickney	1,200	
	Annie F. Stratton	600	
	Martha L. Babbitt*	600	

* Secretary and Librarian.

Tabular View — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1900
Rindge Manual Training...	Charles H. Morse	$3,000	203
	Myra I. Ellis	1,300	
	Albert P. Briggs	300	
	Charles J. Foskett	1,080	
	Lester S. Hart	600	
	Joseph M. Norton	800	
	Frederick B. Scotton	1,000	
	Walter M Smith	1,000	
	William E. Stark	1,400	
	James G. Telfer	1,500	
	Frederick W. Turner	1,500	
	William H. Varnum	800	
	Albert L. Ware	1,200	
	John W. Wood, Jr.	1,000	
	John J. McKenzie*	450	
Agassiz { Grammar	Maria L. Baldwin	1,000	{ 145
Agassiz { Primary	Edith C. Arey	550	{ 175
	Addie B. Byam	650	
	Mary G. Carpenter	700	
	Mary P. Massé	700	
	Mary A. Parsons	700	
	Grace C. Stedman	650	
	Jennie L. Upham	700	
Allston { Grammar	Everett L. Getchell	1,500	{ 336
Allston { Primary	Ella S. Danforth	700	{ 137
	Maude M Dutton	500	
	Lucy M. Fletcher	700	
	Nellie M. Foley	500	
	Jennie C. Hardy	500	
	Ellen A. Kidder	700	
	Ella M. Leaver	700	
	Katherine A. McLean	600	
	Ethel I. Murch	500	
	Esther D. Paul	600	
	Carrie L. Power	500	
	Mary E Regan	500	
	Evelyn M. Whitman	650	
Boardman, Primary	Elizabeth J. Karcher	790	342
	Mabel E. Blake	700	
	Christina R. Denyven	700	
	Isabella M Duguid	700	
	Maud E. Kimball	700	
	Grace Morgan	700	
	C Florence Smith	700	
	Sarah E Stewart	700	
Cushing, Primary	Maude A. Deehan	760	93
	Eva J. Irish	650	
Dunster, Primary	Susan E. Wyeth	770	112
	Mary Ellen Colby	700	
	Mary A. Doran	700	
Ellis, Grammar	Edward O. Grover	2,000	490
	Nellie A. Hutchins	900	
	Caroline L. Blake	800	
	Helen W. Metcalf	750	
	Emma A. Faulkner†	700	

* Secretary and Librarian.
† On leave of absence for study or travel in accordance with the rules of the School Committee.

Tabular View — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1900
Ellis, Grammar	Harriet Foster	$700	
	Lottie L. Griswold	700	
	Louise H. Griswold	700	
	Ella M. Horne	700	
	Ellen J Hunt	700	
	Flora C. Ingraham	700	
	Mabelle E. Porter	700	
	Mary A. Stephenson	700	
Felton, Primary	Florence A. Rogers	770	184
	Marcia R. Bowman	650	
	S. Emma Davis	700	
	Carrie H. Smith	700	
Gannett, Primary	Mary A. Rady	775	203
	Annie M. Billings	700	
	Katherine A. Gaskill	450	
	Augusta G. Mirick	700	
	Margaret F. Sanderson	450	
Gore, Primary	Frances E. Pendexter	810	484
	Katherine L. Dolan	550	
	Mary L. Dolan	550	
	Minnie A. Doran	700	
	Kate A. Hegarty	700	
	Mary A. Hurley	600	
	Katherine L. McElroy	700	
	Julia G. McHugh	700	
	Mary E. Mulloney	700	
	Anastasia Peters	700	
	Nora E. Reardon	450	
	Jane E. Whoriskey	700	
Harvard, Grammar	James S. Barrell	2,000	868
	Arthur B Webber	1,200	
	Ada H. Wellington	900	
	Margaret B. Wellington	800	
	Anna M. Brown	750	
	Addie L. Bartlett	700	
	Frances Fabyan	700	
	Margaret M Fcarns	600	
	Estella J. French	700	
	Annie B. Lowell	700	
	James E. MacWhinnie	700	
	Adeline M. Murphy	700	
	Laura L. Parmenter	650	
	Louise C. Patterson	700	
	Harriette F. Sawin	650	
	Elizabeth L. Setchell	700	
	Annie M. Street	700	
	Emma F. West	700	
	Hattie B. Woodward	700	
	Evangeline W. Young	550	
	Hortense O. Young	700	
Holmes, Primary	Lucy C. Wyeth	760	89
	Eva G. Oakes	600	
Lassell, Primary	Frances E. Whoriskey	770	167
	Rose V. Collier	700	
	Elizabeth B Gahm	700	
	Mary E. Whoriskey	700	

Tabular View — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1900
Lowell, Primary	Eusebia A. Minard	$770	102
	Malvina M. Joslin	700	
	Agnes J. McElroy	700	
Merrill, Primary	Georgia E. Martin	770	202
	Julia M. Davis	450	
	Louise W. Harris	700	
	Jane Macmaster	700	
	Marion B. Magwire	700	
Morse { Grammar	Mary A. Townsend	2,000	{ 455
Morse { Primary	Mary E. Towle	900	{ 219
	Marcia E. Ridlon	750	
	Elizabeth J. Baldwin	700	
	Leila F. Drake	700	
	Ida M. Holden	450	
	Ida J. Holmes	700	
	Florence E. Hunter	550	
	Grace H. Manter	650	
	Alice E. May	700	
	Helen Montague	450	
	Anna A. O'Connell	500	
	Ella M. Pinkham	700	
	Elizabeth H. Richards	700	
	Emilie F. Richardson*	700	
	Mary E. Sawyer	700	
	Lucy M. Soulée	700	
	Grace A. Stone	500	
Otis, Primary	Ellen N. Leighton	785	340
	Frances Allen	700	
	Josephine M. Doherty	700	
	Luella M. Marsh	700	
	Emma J. Ross	700	
	Margaret Sullivan	700	
	Ellen C. Walsh	700	
	Kate F. Wellington†	700	
Parker, Primary	Mary A. Knowles	780	264
	Charlotte E. Clapp	700	
	Butella E L. Conland	650	
	Mattie S. Cutting	600	
	Harriet R. Harrington	700	
	Agnes Marchant	700	
Peabody { Grammar	Frederick S. Cutter	2,000	{ 347
Peabody { Primary	Charlotte A. Ewell	900	{ 126
	Susan C. Allison	700	
	Anna F. Bellows	700	
	Mary H. Ellis	650	
	Helen E. Hazard	700	
	M. Lizzie Hewitt	700	
	Martha A. Parker	450	
	Effie A. Perkins	650	
	Maude R. Pullen	600	
	Dora Trefethen	500	
	Alice M. Tufts	700	
Putnam, Grammar	Thomas W. Davis	2,000	614
	Frederick B. Thompson	1,400	

* On leave of absence for travel or study in accordance with the rules of the School Committee.
† Died January 27, 1901.

Tabular View — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1900
Putnam, Grammar	Eliza M. Hussey	$900	
	Henriette E. de Rochemont	750	
	Mary A. Carmichael	700	
	Anna L. P. Collins	700	
	Mabel Garey	650	
	Sarah M. Grieves	700	
	Hattie L. Jewell	700	
	Annie B. Josselyn	700	
	Marcia L. Marple	600	
	Margaret F. O'Keefe	450	
	Eliza S. Paddack	700	
	Annie A. Trelegan	700	
	Minnie Wilson	450	
Reed, Primary	Margaret T. Burke	770	161
	Elizabeth G. Nelligan	500	
	Julia A. Robinson	700	
	Clara W. Ruggli	450	
Riverside, Primary	Elizabeth A. Tower	770	150
	Amanda M. Alger	700	
	Mary A. Burke	700	
	Hattie A. Thayer	550	
Roberts, Grammar	W. Mortimer MacVicar	1,700	547
	Sara A. Bailey	1,000	
	Emily R. Pitkin	750	
	Susan M. Adams	700	
	Mary A. Blair	700	
	Mary M. Brigham	700	
	S. Alice Fell	700	
	Susan L. Keniston	700	
	Evelyn B. Kenney	700	
	Ada M. Litchfield	700	
	Nina M. Marsh	700	
	S. Agnes Mulloney	700	
	Ida G. Smith	700	
	Caroline M. Williams	700	
Russell { Grammar	Arthur C. Wadsworth	2,000	{ 295
Russell { Primary	Alice G. Teele	900	{ 90
	Carrie J. Allison	650	
	Fannie P. Browning	700	
	Ella E. Buttrick	700	
	Mary A. Connelly	600	
	Edna W. Hodgkins	700	
	H. Maud McLean	700	
	Gertrude E. Russell	600	
	Loretta L. Shaw	700	
Sargent, Primary	Mary A. Brown	770	173
	Christina D. Barbey	700	
	Elmira F. Hall	700	
	Marion Prescott	550	
Shepard { Grammar	Evelyn J. Locke	900	{ 180
Shepard { Primary	Mary E. Bassett*	700	{ 96
	Corabelle H. Bates	450	
	Mary F. Calnane	700	
	Florence M. Dudley	650	

* On leave of absence for the remainder of the school year.

TABULAR VIEW — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1900
Shepard { Grammar	Alice M. Gage	$700	
Shepard { Primary	Mary M. Gilman	700	
	Theresa H. Mahoney	550	
Sleeper { Grammar	A. Estelle Ingraham	900	{ 135
Sleeper { Primary	Emily Bissell	700	{ 152
	Evelyn M Dormer	600	
	Fannie G. Flanders	700	
	Elizabeth O. Haynes	450	
	Melissa M. Lloyd	700	
	Blanche C. Trefethen	700	
Stearns, Primary	Fannie E. Higgins	770	188
	Maria J. Bacon	700	
	Ellen A. Cheney	700	
	Eva A. Taylor	700	
Tarbell, Primary	Emma J. Young	770	200
	Florence J. Alley	700	
	Carrie P Pierce	700	
	Nellie S. Walker	550	
Taylor { Grammar	Ella R Avery	900	{ 113
Taylor { Primary	Mary A. Boland	600	{ 268
	Bridget T. Boyle	700	
	Anna E Callahan	700	
	Lillian M Canty	700	
	Josephine Day	600	
	Lillian H. Kenney	450	
	Cecilia F. Leahy	650	
	Maud J. Paget	500	
	Agnes M. Sheridan	700	
	Mabelle S. Welsh	450	
Thorndike, Grammar	Ruel H. Fletcher	2,000	527
	Harriet A Townsend	900	
	Laura A. Westcott	750	
	Ella J. Boyle	450	
	Grace W. Fletcher	700	
	Lena S. Frederikson	650	
	Mary A. Grant	550	
	Harriet M. Hanson	700	
	Emma A. Hopkins	700	
	Mary E. Nason	700	
	Ellen M. Plympton	700	
	Susan L. Senter	700	
	Abby S. Taylor	700	
	Lydia A. Whitcher	700	
Washington, Grammar	John W. Freese	2,000	394
	Blanche E Townsend	800	
	Alice P. Fay*	750	
	Eldora J. Clark	700	
	Mary L. Ells	700	
	Winifred L. Kinsley	700	
	Emma Penney	700	
	Margaret J Penney	700	
	Bessie H. Pike	650	
	Hattie Shepherd	700	
	Mary E. Stiles	700	
	Marianne M. Webb	700	

* On leave of absence for study or travel in accordance with the rules of the School Committee.

Tabular View — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1900
Webster, Grammar	John D. Billings	$2,000	730
	William D. Tillson	1,200	
	Alice C. Phinney	900	
	Martha N. Hanson	800	
	Ada A. Billings	750	
	Mabel T. Ashley	700	
	Margaret M. Brosnahan	600	
	Charlotte M. Chase	700	
	Fanny F. Curtis	700	
	Susan I. Downs	700	
	Mary S. Fellows	650	
	Josephine Hills	700	
	Gertrude I. Hulbert	700	
	Minnie V. Reid	700	
	Harriette E. Shepard	700	
	Olive L. Slater	650	
	Ellen F. Watson	700	
	Katherine L. Wight	500	
Wellington Grammar	Herbert H. Bates	2,500	460
Wellington Primary	Sarah J. Gunnison	1,000	362
	Margaret Kidd	1,000	
	Mary I. Vinton	1,000	
	Carrie H. Stevens	900	
	Emma M. Taylor	700	
	Training Class	8,430	
Willard, Primary	Amelia Wright*	810	525
	Sarah Louise Baker	760	
	Sally N. Chamberlain	700	
	M Elizabeth Evans	700	
	Ella F. Gulliver	700	
	Julia S Gushee	700	
	Mary E. G. Harrington	700	
	Daisy E. Haynes	450	
	Katherine M. Lowell	700	
	Mary A. O'Hara	500	
	Belle Menard	700	
	Eliza D. Watson	700	
	Grace R. Woodward	700	
	Laura Wright*	700	
Wyman, Primary	M. Carrie Dickman	780	272
	Addie M. Bettinson	700	
	Mary H. Brooks	600	
	Georgianna P. Dutcher	700	
	Genevieve S. Flint	700	
	Agnes Ross Smith	450	
Kindergartens Boardman	Mary B. Pratt	700	43
	Hattie P. Russell	450	
Corlett	Sarah S. Wells	700	40
	Annie M. Dodd	550	
Dunster	Clara A. Hall	700	54
	Caroline A. Wolcott	600	
Gannett	Carrie E. Shepherd	650	52
	Marion L. Akerman	450	
Gore	Selma E. Berthold	700	52
	Jennie S. Clough	550	

* On leave of absence for the remainder of the school year.

Tabular View — Concluded.

Names of Schools		Teachers	Salaries	No. of Pupils Dec. 31, 1900
Kindergartens	Lowell	Melinda Gates	$700	43
		Margaret L. Voorhees	550	
	Merrill	Caroline A. Leighton	600	60
		Gretchen K. Weinschenk	450	
	Riverside	Edith L. Lesley	650	59
		Olive M. Lesley	550	
	Shaw	Harriette E. Ryan	700	56
		Leonice S. Morse	550	
	Sleeper	Mabel S. Adams	700	59
		Julia L. Frame	550	
	Taylor	Mary F. Leland	700	61
		Bertha V. Jameson	450	
	Wellington	Gertrude M. Gove	700	53
		Florence Rice	500	
	Willard	Ellen A. Watson*	700	61
		Alice C. McIntire	600	
		Caroline E. Simpson	450	

* On leave of absence for the remainder of the school year.

Teachers of Sewing —	Agnes Gordon	$600
	Alice H. Nay	600
	Nancy T. Dawe	540
Director of Music —	Frederick Elmer Chapman	2,000
Director of Drawing —	Peter Roos	1,800
Assistant in Drawing —	Lucia N. Jennison	800
Director of Nature Study —	Sarah E. Brassill	1,000
Director of Physical Training —	Sara Eleanor Boudren	900
Superintendent —	Francis Cogswell	3,500
Supervisor of Primary Schools —	Mary A. Lewis	1,200
Agent —	Sanford B. Hubbard	2,100
Clerks —	Althea B. Frost	750
	Myrta E. Smith	600
Porter —	John Lemon	600
Truant Officers —	Lucian S. Cabot	1,000
	John Carmichael	1,000
	Jeremiah Murphy	1,000
	William H. Porter	1,000

SUMMARY.

Number of pupils in Latin School	478
Number of pupils in English High School	546
Number of pupils in Manual Training School	203
Number of pupils in Grammar Schools	6,636
Number of pupils in Primary Schools	5,876
Number of pupils in Kindergartens	693
Total	14,432

Number of pupils belonging to the public schools, December 31, 1898 . 14,100

Increase of pupils, 1900	332
Increase of pupils, 1899	314
Increase of pupils, 1898	476
Increase of pupils, 1897	422
Increase of pupils, 1896	714
Increase of pupils, 1895	250
Increase of pupils, 1894	278
Increase of pupils, 1893	135
Increase of pupils, 1892	210
Increase of pupils, 1891	222
Average annual increase of pupils from 1891 to 1901 (inclusive)	335

COST OF INSTRUCTION.

Latin School	$21,819 00	For each pupil	$45 65
English High School	25,250 50	" " "	46 25
Manual Training School	17,825 73	" " "	87 81
Training School (Teachers)	14,153 48	" " "	17 22
Grammar Schools	124,488 39	" " "	20 16
Primary Schools	85,723 90	" " "	15 55
Kindergartens	15,267 84	" " "	22 03
Teachers of Sewing	1,740 00		
Director of Music	2,000 00		
Directors of Drawing	2,600 00		
Director of Nature Study	1,000 00		
Director of Physical Training	865 00		
Substitute Teachers	1,086 00		
Superintendent	3,500 00		
Supervisor of Primary Schools	1,200 00		
Agent	2,100 00		
Clerks	1,350 00		
Truant Officers	3,930 00		
Porter	600 00		
Rebate on Tuition	12 50		
	$326,512 34	For each pupil	$22 62

Cost of instruction in Evening High School	$1,874 00
Cost of instruction in Evening Elementary Schools	3,375 00
Cost of instruction in Evening Drawing Schools	*1,430 00
	$6,679 00

REMARKS ON THE STATISTICS.

The increase over the last school year in the number registered is 450; in the average number belonging, 561; in the average daily attendance, 399. In the per cent of attendance there has been a decrease of eight-tenths of one per cent. The number belonging to the schools in December, 1899, was 14,100; in December, 1900, 14,432; an increase of 332. The entire cost of the day schools, which includes the cost of instruction, of text-books and supplies, of incidental expenses, of the care of truants, and the care and repair of schoolhouses, exceeds that of last

* The Director of Drawing is principal of these schools. No part of his salary is included in this amount.

year by $27,638.37, and the cost per pupil by $0.81. In the entire cost of instruction the increase is $20,767.47, an increase in the cost per pupil of $0.57.

During the past two years there has been a large increase in the cost of the schools, due principally to the increase in salaries and to the maintenance of the manual training school which heretofore has been maintained by Mr. Rindge. There are, however, in the State, *two hundred forty-four* towns and cities which make a larger expenditure in proportion to their wealth. In a list of the thirty-three cities, arranged numerically according to the percentage of their taxable property appropriated to the support of public schools for the year 1899-1900, Cambridge is the *twenty-sixth ;* and compared with the fifty-four towns and cities of our county, Cambridge is the *thirty-seventh.* In a list of the towns and cities of the State, arranged numerically according to the sum appropriated for each child between five and fifteen years of age, Cambridge is the *thirtieth.*

These statistics relating to the schools of the State are taken from the sixty-fourth annual report of the secretary of the Board of Education.

TEXT-BOOKS AND SUPPLIES.

At the meeting of the Board in December, the committee on supplies submitted a detailed report of the expenditures of that committee for the year. The report is as follows: —

In accordance with Section 30 of the Rules of the School Board, the Committee on Supplies submit their report for the school year, ending July 1, 1900, it being their sixteenth annual report.

Stock on hand July 1, 1899	$5,305 70	
Purchases and expenditures to July 1, 1900	25,103 70	
		$30,409 40
Cash sales and damages	$422 75	
Delivered to schools, officers, etc.	24,937 27	
		25,360 02
Stock on hand July 1, 1900		$5,049 38

The purchases and expenditures have been: —

For text-books	$10,757 84	
Desk and reference books	257 84	
Copy books	765 02	
Apparatus and furnishings	4,214 05	
Printing, $241.50; expressage and labor, $313.09	554 59	
Repairing books, $562.17; diplomas, $186.73	748 90	
Tuning pianos	24 50	
Miscellaneous supplies, etc.	7,587 36	
		$24,910 10
Less the value of exchanges		206 53
		$24,703 57

The net cost of text-books and supplies is as follows: —

Stock on hand July 1, 1899	$5,305 70	
Bills paid by City Treasurer	24,703 57	
		$30,009 27
Less stock on hand July 1, 1900	$5,049 38	
Cash paid to City Treasurer, sales and damages	422 75	
		5,472 13
We have, net cost of all schools and officers		$24,537 14

or an average cost per pupil of $1.740. The average cost per pupil per annum for sixteen years has been $1.258.

The annual cost per pupil for text-books and supplies since the introduction of the free text-book law is as follows: —

Year	Average cost per pupil	Year	Average cost per pupil	Year	Average cost per pupil
1886	$1.170	1891	$1.248	1896	$1.436
1887	1.051	1892	1.149	1897	1.094
1888	1.068	1893	1.109	1898	1.268
1889	0.960	1894	1.243	1899	1.235
1890	1.334	1895	1.152	1900	1.740

	Net Expenses	Average per Pupil				
		1900	1899	1898	1897	1896
Latin School	$2,816 72	$6.804	$3.245	$3.594	$4.251	$4.113
English High School	2,534 62	4.642	3.888	3.535	2.931	2.995
Manual Training School	2,689 48	13.515	.....	.....	.....	.....
Grammar Schools	7,247 35	1.747	1.476	.977	1.053	1.527
Mixed Schools	6,165 91	1.573	1.001	1.532	1.105	1.995
Primary Schools	1,665 20	.396	.425	.540	.420	.444
Kindergartens	462 56	.692	.303	1.003	.634	.580
Evening Schools	317 71	.....	.....	.....	.....	.....
Special Teachers	78 20	.....	.....	.....	.....	.....
Officers of Board	137 09	.....	.....	.....	.....	.....
Miscellaneous expenses (not chargeable to any grade)	442 93					
	24,557 77					
Less profits on sales	20 63	.....	.....	.....	.....	.....
	$24,537 14	$1.740	$1.225	$1.268	$1.094	$1.436

The total expenditure for text-books and supplies for the schools has largely exceeded that for any previous year since the first, when text-books had to be provided for all the schools.

The causes of this increase are three in number, two of which are not likely to occur. First, the purchase of six pianos at a cost of $1,675 which were required properly to conduct the instruction in singing in five grammar schools and one kindergarten. Second, furnishing the complete outfit of apparatus and supplies for the new chemical department at the Latin school at a cost of $1,159.65. Third,—large and unusual, but likely to be repeated,—are the following items: $308 for maps for several of the grammar and mixed schools; $316 for a sloyd outfit for twenty pupils in the English high school; $200 for the outfit for two new kindergartens; $800 for newly adopted text-books for the high schools; $2,689.48 for text-books and supplies for the Rindge manual training school for the entire year.

It will be noticed that these items are occasioned by the enlargement of the work in the schools and by the opening of new schools which furnish increased opportunities for education. After deducting the expenditures unusual in past years, the average cost per pupil is $1.233 or $0.007 more than the average for the past fifteen years.

During the past year $171.75 has been spent for care of flags and flagstaffs. The committee estimate that $300 will be required this year.

CHANGES IN TEXT-BOOKS.

The following is the rule relating to changes in text-books: "All proposals for changes in text-books shall be made to the superintendent. If believed by him to deserve consideration, he shall appoint two persons, one of whom shall be a teacher in the service of the city, and they and the superintendent shall examine and each make a written report on the proposed books. These reports shall be kept on file in the office of the superintendent, and shall be open to inspection by members of the Board only. Changes so considered may be recommended to the Board for adoption, when they shall be referred to the committee on text-books."

Under this rule the following text-books have been adopted by the Board during the year 1900:—

For use in the English high school, Wentworth and Hill's Text-Book of Physics, Gregg's Shorthand, Easy German Selections for Sight Translation, compiled by Grace L. Deering, Arnold's Fritz auf Ferien, and Baumbach's Der Schwiegersohn.

For use in the grammar schools, Cyr's Children's Fourth Reader, and Lights to Literature, Book Four.

SCHOOL ACCOMMODATIONS.

The following is from the report of the committee on schoolhouses:

The Harvard schoolhouse which was burned March 21, 1899, was rebuilt, and the new building was occupied April 2, 1900. The cost of the building was $46,970.46; of the new furniture, $3,197.65.

When the Harvard school returned to its old home, the Dana school was moved to the building on Fayette street (the old high school building), and the Dana building was closed. The school in the Fayette street building was named the Merrill school in honor of the Hon. J. Warren Merrill, a former mayor of the city.

In May a communication was sent to the city council requesting that certain repairs and alterations be made on several of the schoolhouses. In compliance with this request the following work has been done:—

The Felton schoolhouse has been remodelled at an expense of from $11,000 to $12,000. It now contains four classrooms and two smaller rooms for kindergartens. It has all the needed conveniences, including adjustable furniture; is well ventilated and has attractive grounds.

The sanitary arrangements at the Gore and Wellington have been entirely changed. The improvements at the Gore cost about $9,000; at the Wellington, from $10,000 to $11,000. Other work has been done to improve the sanitary condition of the Gannett, Dunster, Holmes, Taylor, Boardman, Riverside, and Tarbell schools, at a cost in the aggregate of about $700. The assembly hall in the English high school building has been decorated at a cost of nearly $1,000, and the inside of the Wyman schoolhouse has been painted and the walls and ceiling tinted.

Adjustable furniture has been put into the schoolhouses which have been remodelled, and into rooms which have been recently furnished. The proper adjustment of this furniture needs the constant attention of both teacher and janitor.

The immediate and pressing need, as last year, is a schoolhouse in the vicinity of Cambridge Field, and not in the very distant future, another in Ward Four. The location of the Dana schoolhouse is admirable for a primary school or a mixed school of the lower grammar and the primary grades. Such a school will be needed in the near future, and the lot which is ample for an eight room building should be kept for this purpose.

A contract has been made for the new schoolhouse which is to accommodate the Washington school and classes of the Rindge manual training school. The building is to be of brick and will contain fourteen rooms and a hall and will cost about $80,000.

PLAN OF THE SCHOOL REPORT.

For many years the subject matter and arrangement of the statistical part of the school reports have remained essentially unchanged; and for the past few years each report has contained certain definite information relating to the organization and conduct of the schools such as is frequently sought by parents or persons interested in school affairs. The same general plan has been followed in preparing this report.

Latin School. March 1, 1886, the Classical and English departments of the Cambridge high school were made two separate schools, called respectively "The Cambridge Latin School" and "The Cambridge English High School."

The following table shows the membership of the Latin school and the cost of instruction from year to year for the past ten years: —

December	Number of Pupils	Number of Teachers	Cost of Instruction	Cost per Pupil	Number of Graduates
1891.....	230	10	$12,967 50	$56 38	36
1892.....	262	10	12,751 07	48 66	22
1893.....	311	11	13,425 66	43 17	23
1894.....	368	12	14,359 66	39 02	27
1895.....	388	14	15,059 58	38 81	25
1896.....	371	15	16,525 00	44 54	34
1897.....	373	16	17,335 00	46 47	35
1898.....	383	16	18,325 00	47 84	43
1899.....	414	19	19,318 68	46 67	43
1900.....	478	22	21,819 00	45 65	39

The cost of the Latin school to the city is less than the above sum by the amount received from the Hopkins Fund, which can be used only for classical instruction. Were this amount deducted, the annual cost per pupil would be nearly two dollars less than given above, according to the number of pupils in the school.

The course of study is arranged for five years, and for four years, and is almost wholly decided by the requirements for admission to Harvard College. Thirteen per cent of all the graduates have completed the work in four years. The following is the rule relating to the admission of pupils to the high schools: "Pupils who have received the diploma of a Cambridge grammar school may, on recommendation of the master, be admitted to either high school without an examination. For other persons who desire admission, an examination shall be held at the beginning of the autumn term under the direction of the superintendent, but pupils

who are qualified to join existing classes may be admitted at any time on application to the principal. No pupil from any grade in a grammar school shall be examined who does not present a satisfactory certificate that he has pursued his studies during the summer vacation."

From three-fourths to four-fifths of the graduates are usually recommended for admission without an examination. About one-half of the remaining part do not seek admission.

Diplomas of graduation signed by the mayor and the head master of the school are awarded to pupils of the high schools who have successfully completed the course of study, or its full equivalent, and have sustained a good character.

For non-resident pupils the tuition is fifty dollars a year, payable in advance,— one-half at the beginning and the other half at the middle of the school year. The sessions of the school begin at 8.30 A. M. and end at 1.30 P. M.

English High School. The English high school was organized March 1, 1886.

The following table shows the membership of the English high school and the cost of instruction from year to year for the past ten years. Until January 1, 1899, the pupils of the Rindge manual training school were included in the membership of the English high school. This explains the smaller number of pupils since 1898: —

December	Number of Pupils	Number of Teachers	Cost of Instruction	Cost per Pupil	Number of Graduates
1891.....	575	16	$18,767 50	$32 64	48
1892.....	613	19	20,488 50	33 42	77
1893.....	656	19	22,095 00	33 68	95
1894.....	709	21	23,051 00	32 51	91
1895.....	674	21	24,369 40	36 16	89
1896.....	679	21	24,612 00	36 25	72
1897.....	730	23	25,194 09	34 51	90
1898.....	736	23	26,051 17	35 40	97
1899.....	546	23	23,750 51	43 50	59
1900.....	546	24	25,250 50	46 25	68

There are four courses of study — a general course, a course preparatory for the scientific schools, a commercial course, and a domestic science course, each arranged for four years.

It is the plan of the courses that all pupils in the school shall pursue substantially the same subjects for their first year, but thereafter shall have increasingly divergent studies, open to choice within reasonable limitations, and determined largely by aptitude and expectation of subsequent career.

These general statements apply to all the courses: —

1. All pupils will have a weekly exercise in music (choral singing).

2. Drawing is required of all once a week for the first year, and is open to all as an extra subject during the remaining three years.

3. It is expected that no two foreign languages will be begun the same year; that any foreign language once begun will ordinarily be continued for two years, and that a modern foreign language will not be continued longer than two years, except by work in conversation.

4. Variations from the courses as stated are permissible with the approval of the head master.

The requirements for admission to this school and the rules relating to the granting of diplomas are the same as for the Latin school.

For non-resident pupils the tuition is fifty dollars a year, payable in advance,— one-half at the beginning and the other half at the middle of the school year. The sessions of the school begin at 8.30 A. M. and end at 1.30 P. M.

Rindge Manual Training School. This school was founded by Mr. Frederick H. Rindge in 1888. For ten years he paid the current expenses of the manual training department, the city providing for the academic instruction. January 1, 1899, a complete transfer of the entire plant was made to the city, and the school became an integral part of the school system.

The following table shows the membership of the manual training school for two years, and the cost of instruction for eleven months in 1899, and for the year 1900: —

December	Number of Pupils	Number of Teachers	Cost of Instruction	Cost per Pupil	Number of Graduates
1899.....	199	14	$14,666 24	$73 70	13
1900.....	203	14	17,825 73	87 81	16

The course of instruction covers four years. The sessions are five and one-half hours a day, instead of five, as in the other high schools. About one-third of the time is given to the work of manual training, and the remainder to the subjects usually taught in high schools, with the exception of Latin, German, and Greek.

The requirements for admission to this school and the rules relating to the granting of diplomas are the same as for the Latin school.

For non-resident pupils, the tuition is one hundred fifty dollars a year, payable in advance,—one-half at the beginning, and the other half at the middle of the school year. The sessions of the school begin at 8.30 A. M. and end at 2 P. M.

The following is from the report of the committee on high schools :—

No changes have been made in the courses of study or in the general administration of the high schools during the current year. The remodelled courses of study which were adopted in 1898 and which first went into effect in the year 1899, have been carried out in the several schools, and have been further tested and approved by this second year's experience.

In the Latin school a marked increase in the total number of pupils has appeared. The number registered in September, 1899, was four hundred twenty-three, whereas that in September, 1900, was four hundred eighty-one. In the options which are offered under the new course of study, it appears again that Greek fully holds its own among the languages, and that chemistry seems to be preferred among the natural sciences. Of the ninety pupils who had an option between Greek and a modern language, fifty-six chose Greek, twenty-two German, and twelve French. Of the sixty-three pupils who had an option between chemistry and physics, forty-eight chose chemistry and fifteen physics.

The high school committee has pleasure in reporting that a large part of the gift of five hundred dollars presented to the school by Messrs. E. A. and S. H. Hildreth, has been expended for the ornamentation of the Latin school. Large pictures have been bought for the assembly hall, and the Frieze of the Parthenon has been purchased and a portion put in place. The committee has further the pleasure of acknowledging another gift of forty dollars received by the head master for the use of the school, from Mr. F. P. Bonney, a former member of the school.

In the English high school it is noteworthy that a considerable number of pupils of the school are prepared for higher institutions, chiefly the Lawrence Scientific school and the Massachusetts Institute of Technology. Fifteen pupils took such examinations during the year 1900 and showed a high degree of proficiency. Of the fifty-nine examinations taken by these pupils, fifty-five were passed with success, and four only resulted in failure. In addition, eight graduates of the high school were received by certificate at colleges which admit by certificate.

Among the new courses of study the committee would call attention to those in domestic science, sloyd, and bookkeeping. On these courses the head master reports as follows :—

"The new course in domestic science is developing naturally and healthily. The number of girls who elected sloyd this year in Class III. is only about one-half as large as last year. No reason for this is apparent. I presume it is a natural variation. Certainly no dissatisfaction appeared with any feature of the work in the last year's class nor is any evident

this year. The number of girls in Classes I. and II. who elected food is considerably larger than last year, and the interest is as enthusiastic as before. The advanced work in food and household hygiene is going on with entire success. Attempts are made by the teachers in chemistry and in food to become closely familiar with each other's work and to correlate the work of the pupils in these two subjects, which have so obvious connections.

The change of text-book and method in bookkeeping has resulted in clear improvement in the work of the commercial course. The new teacher in stenography has made an excellent beginning in that subject and proves to be well adapted for her work."

Still another important change in the work of the high school is in the new method of dealing with those pupils who, after entering from the grammar schools, show themselves not sufficiently equipped for the work of the first year in the high school. During the past year for the first time, these pupils, instead of being sent back to the grammar schools or dismissed from the high school, were kept in the school, being put into separate divisions, and there taught with special regard to their needs. This plan, suggested by the superintendent, went into effect in February, 1900, and twenty-seven pupils were withdrawn from their usual division and placed in new classes. For the teaching of these extra divisions, resort was made to advanced students of pedagogy in Harvard University and Radcliffe College, whose services the superintendent and head master had been authorized to enlist by a previous vote of the Board. The head master reports that "the plan, while not free from some objections, chiefly growing out of the weaker power of control of inexperienced teachers, has worked with evident and gratifying success.

The regular divisions, relieved by the removal of those who dragged most heavily, were able to advance more vigorously and more steadily than earlier in the year.

The young teachers who came to serve these classes, finding their recompense in the opportunity to practice teaching, worked with faithfulness and energy in all cases, and in some cases with marked ability, and they did the school a valuable service."

In the Rindge manual training school, resort was also made to the services of students of pedagogy. In this school such services are especially welcome, because of the large number of recitation periods per day under the programme of the school. The head master reports as follows: —

"We had during March, April, May, and June three men from Harvard University who assisted our teachers, and the assistance was of value to the city, and, I believe, resulted to the advantage of the men

also. They brought enthusiasm and an earnestness of purpose, which is so essential to success. I trust we shall have others of equal ability this year."

The head master reports also that some changes were made in iron working, which will necessitate some additional machinery. These, as well as the inevitable needs for new machinery, will necessitate some further expenditure in order that the school may be kept up to its high standard. It appears also that the change by which free-hand drawing has been introduced, and the amount of mechanical drawing has been lessened, has worked advantageously.

It is proposed also in the Rindge manual training school to reconstruct the basement of the classroom building and to use it as a gymnasium for the pupils of the manual training school. Arrangements are under consideration by which this reconstruction can be carried out without expense to the city, and which will result in a welcome addition to the usefulness and attractiveness of the manual training school.

Manual Training in Other Schools. The statutes require that every town and city of twenty thousand or more inhabitants shall maintain, as part both of its elementary and its high school system, the teaching of manual training. The Rindge manual training school gives the required instruction to boys of the high school grade, and provision is made in the English high school for girls of this grade, sloyd being taught in the second year, and cooking in the third. Sewing in the grammar schools may be considered as meeting the requirements for girls in the grammar grades. Last year provision was made at the Allston school for instruction in sloyd for the boys of that school and for two classes of twenty pupils each, one from the Roberts school and another from the Wellington. The same provision has been continued this year. In addition to this a class of twenty boys from the Harvard school and another from the Washington have been taught at the English high school building. This work should be extended until all the boys in the grammar schools who desire to receive instruction in manual training shall have an opportunity.

It is hoped that during the coming year two rooms at least will be fitted up for carrying on this work in other parts of the city. The work in manual training in all the schools is now under the direction of the head master of the Rindge manual training school.

Wellington (Training) School. This school was opened in September, 1884, and differs from the other schools in this respect, — all the grades, except the eighth and ninth, are taught by young teachers. Their work, however, is done under the immediate supervision of a master and three

assistants, who are held responsible for the instruction and management of the school. For several years the seventh grade has been taught by a graduate of the training class.

The object of conducting a school on this plan is to give the Cambridge young women who desire to teach and who have made special preparation for the work, an opportunity to gain experience under conditions favorable to their own success, and without prejudice to the interest of their pupils.

Graduates of the English high school or of the Latin school, who have also graduated from one of our state normal schools or from the Boston normal school, are preferred candidates for the position of teacher in this school. Other persons of equal preparation may be appointed.

The required term of service is one year. Teachers are appointed on probation and may be excused or dismissed at any time by the superintendent, with the approval of the committee on the training school.

No teacher is considered a graduate of the school until by vote of the training school committee she is voted to the graduate class which is known as Class B.

The money compensation for the first three months, and until satisfactory service is rendered, is at the rate of two hundred dollars a year. For the remaining part of the year it is at the rate of two hundred fifty dollars.

Graduates temporarily employed as teachers in this school are paid at the rate of three hundred dollars a year. Graduates selected to act as substitutes in any school are paid at the rate of four hundred dollars.

That the direct influence of the school may be continued, it is the duty of the master, or of one of the supervising teachers, occasionally to visit the schools of the graduates who are teaching in Cambridge.

The school contains all the grades of the grammar and primary schools and a kindergarten, the number of pupils being nearly nine hundred.

By the rules of the school board the superintendent is authorized to employ as many substitutes and temporary teachers as may be necessary to take the places of absent teachers. These teachers are usually assigned to the training school, when not otherwise employed, that there may be at this school a sufficient number of teachers to make it practicable for the members of the training class to visit other schools.

The following is from the report of the committee on the training school: —

The number of teachers connected with the training class since the organization of this school, not including the twenty-five admitted within a year, is three hundred sixty-two. Of this number sixty-one left the school

before the end of the required term of service or failed to meet the requirements for graduation. The number of graduates is two hundred one. Ninety per cent of these have found positions in the schools of Cambridge, and from 4 to 5 per cent have been employed in other cities. At the present time 38 per cent of the teachers in our grammar and primary schools are graduates of this school. Nineteen of these graduates have been appointed the past year.

The committee is glad to report that the Wellington schoolhouse has been put in thorough sanitary condition. The expense was about ten thousand dollars. On account of the delay in building another schoolhouse in Ward Two, this school is still in a crowded condition. It is hoped that relief may come in the near future.

Grammar Schools. The number of pupils in these schools on the first of December was six thousand six hundred thirty-six; and the number of teachers, including masters and special teachers, was one hundred seventy-three.

The cost of instruction for each pupil for the year has been twenty dollars sixteen cents. This does not include the cost of supervision.

For non-resident pupils the tuition is twenty dollars a year, payable in advance, — one-half at the beginning and the other half at the middle of the school year.

The course of study is for six years, but the schools are so classified as to give the pupils an opportunity to complete the course in four years or in five years. The average age of the pupils who entered last September was nine years ten months. The number of graduates was five hundred fifty-three, their average age being fifteen years. Of these, 6 per cent completed the course of study in four years, 31 per cent in five years, 47 per cent in six years, and 16 per cent in seven or more years.

Pupils are promoted by classes from the primary schools at the beginning of the autumn term; but individual pupils may be promoted at other times, if it is deemed expedient by the supervisor of primary schools and the superintendent.

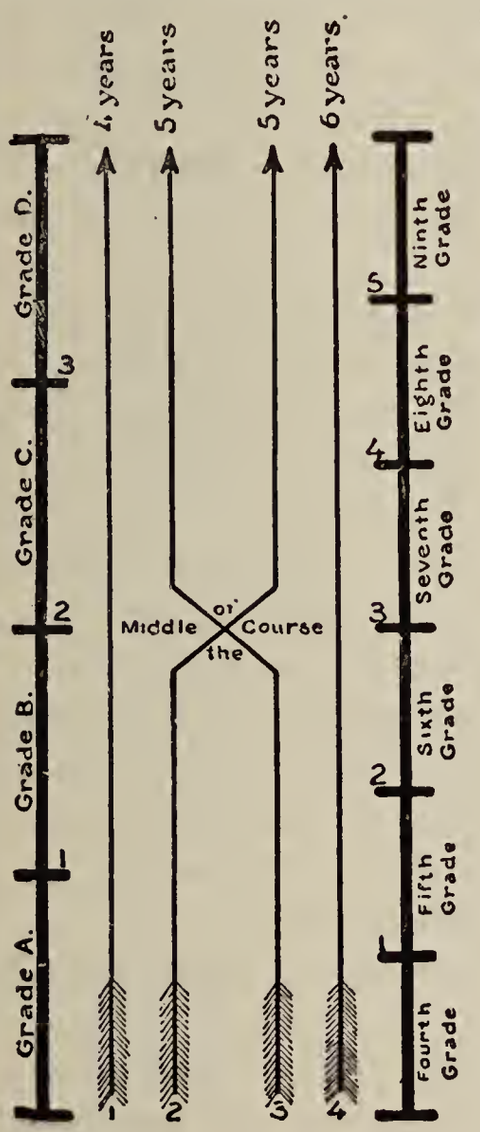
Promotions from grade to grade in the grammar schools, and from the grammar to the high schools, are made by the teachers under the direction of the masters and the superintendent. Pupils qualified to join existing classes may be admitted at any time on application to the master of the school. No regular preannounced examinations are held in these schools, but the results of such written exercises and reviews as the teachers and masters may hold from time to time may be used as a part of the basis of promotion.

The thoroughness with which the work is done in any school is shown in part by the ability of the pupils to do the work in the high

schools. The pupils are admitted to the high schools on trial; and, by the rule of the high school committee, any pupil who fails to maintain a suitable rank is reported to that committee, and no pupil thus reported can continue in either high school, except by special vote. For two years, however, provision has been made by which these pupils have been allowed to remain in the English high school, and receive such instruction as would best fit them to enter again upon the regular work of the school at its reorganization in September.

In the grammar schools special teachers are appointed to help such pupils as seem able to do the work in less than six years, and to aid those who without personal instruction would require more than six years. This action of the committee removes the most serious objection to the graded system of schools.

The course of study is divided in two ways: (1) into six sections; (2) into four sections; each section covering a year's work. Pupils taking the course in six years are classified in six grades, called the fourth, fifth, sixth, seventh, eighth, and ninth grades. Those taking it in four years are classified in four grades, called grades A, B, C, and D. When pupils are promoted to the grammar schools they begin the first year's work together. After two or three months they are separated into two divisions.



One division advances more rapidly than the other, and during the year completes one-fourth of the whole course of study. The other division completes one-sixth of the course.

During the second year the pupils in grade B are in the same room with the sixth grade. At the beginning of the year they are five months (one-half the school year) behind those in the sixth grade. After two or three months, grade B is able to recite with the sixth grade, and at the end of the year both divisions have completed one-half the course of study — the one in two years, and the other in three years. The plan for the last half of the course is the same as for the first half, the grades being known as the seventh, eighth, and ninth in the one case, and as C and D in the other.

There are also two ways of completing the

Arrow No. 1 indicates the four years' course; grades A, B, C, D. Arrow No. 2 indicates one of the five years' courses; grades A, B, 7, 8, 9. Arrow No. 3 indicates the other five years' course; grades 4, 5, 6, C, D. Arrow No. 4 indicates the six years' course; grades 4, 5, 6, 7, 8, 9.

course in five years: (1) any pupil who has completed one-half the course in two years, may at the end of that time be transferred to the seventh grade, and finish the course in three years; (2) any pupil who has completed one-half the course in three years, may at the end of that time be transferred to grade C, and finish the course in two years. In both cases these changes can be made without omitting or repeating any part of the course.

It is now nine years since the schools were first classified on this plan. During the time four thousand seven hundred eighteen pupils have graduated from the grammar schools. Of this number, 8 per cent completed the course in four years, 30 per cent in five years, 47 per cent in six years, and 15 per cent in seven years or more.

Of the number who entered the Latin school during the past six years, 15.9 per cent did the work in the grammar schools in four years, 45.6 per cent in five years, and 38.5 per cent in six years. Of those who took the general course in the English high school, 12.2 per cent did the work in the grammar schools in four years, 41 per cent in five years, and 46.8 per cent in six years. Of those who took the commercial course in the English high school, 9.5 per cent did the work in the grammar schools in four years, 38.1 per cent in five years, and 52.4 per cent in six years. Of those who entered the Rindge manual training school, 6.3 per cent did the work in the grammar schools in four years, 37.9 per cent in five years, and 55.8 per cent in six years.

More than 50 per cent of the pupils entering the high schools did the work in the grammar schools in less than six years, 41 per cent doing it in five years, and 12 per cent in four years. It does not follow, however, that because so many did the work in less than the full time, the plan is a good one. The value of the plan is shown rather by the thoroughness with which the work has been done, not in one year only, but in a series of years. The results of the first year's work in the high schools would seem to be a test of this thoroughness. The records in these schools show that every year for six years the average per cent of the pupils who were four years in the grammar schools was higher than the per cent of those who were five years in the grammar schools, and that the per cent of those who were five years in the grammar schools was higher than the per cent of those who were six years in the grammar schools.

The average per cents of the first year's work in the different high schools for five years are as follows:—

In the Latin school, the average per cent of the pupils who completed their grammar school work in four years is 79.4; of those who completed it in five years, 74.7; of those who completed it in six years, 70.1.

In the general course of the English high school, the average per cent of the pupils who completed the grammar school work in four years is

78.6; of those who completed it in five years, 75.9; of those who completed it in six years, 72.9.

In the commercial course of the English high school, the average per cent of the pupils who completed the grammar school work in four years is 73.3; of those who completed it in five years, 71.5; of those who completed it in six years, 69.8.

In the Rindge manual training school, the average per cent of the pupils who completed the grammar school work in four years is 76.1; of those who completed it in five years, 67.4; of those who completed it in six years, 66.7.

These results do not indicate as thorough preparation for high school work as is desirable, but they do show that there are some pupils who can do the same amount of work as others in less time, and do it as well and even better. If the pupils who spent only four or five years in the grammar schools should have remained longer, it is equally true that the time should have been lengthened for those who had been in these schools six years. In every course of study provision should be made for the more rapid advancement of a part of the pupils, or for additional work for those able to do it.

Primary Schools. The number of pupils in these schools on the first of December was five thousand eight hundred seventy-six; and the number of teachers was one hundred forty-two, being an average of about forty-one pupils to a teacher.

The cost of instruction for each pupil for the year has been fifteen dollars fifty-five cents. This does not include the cost of supervision.

For non-resident pupils the tuition is fifteen dollars a year, payable in advance, — one-half at the beginning and the other half at the middle of the school year.

The course of study is for three years. Children five years old are admitted to the first grade at the beginning of the school year and during the first week in March. Pupils qualified to join existing classes may be admitted at any time on application to the principal. At the present time, 42 per cent of the pupils are in the first grade; 30 per cent in the second; and 28 per cent in the third.

One thousand four hundred twenty-three pupils graduated last June, at an average age of nine years seven months. Of these, 4 per cent completed the course of study in less than three years; 59 per cent in three years; and 37 per cent in more than three years.

Promotions from grade to grade in the primary schools, and from the primary to the grammar schools, are made by the primary teachers, under the direction of the supervisor of primary schools and the superintendent.

Promotions by classes are made annually at the beginning of the autumn term; but individual promotions are made at other times, if it is deemed expedient by the supervisor of primary schools and the superintendent.

Pupils are promoted to the grammar schools on trial, and those who show by their work that they are unprepared are returned to the primary schools on the approval of the supervisor of primary schools and the superintendent.

Once a month the teachers of each grade meet the directors of special studies and the supervisor of primary schools. These meetings are held in the English high school building on Wednesday afternoons, half an hour after the close of the schools. The work for the coming month is planned; criticisms and suggestions in regard to methods are made; and questions from the teachers are answered and discussed.

Occasionally specimens of written work from all the pupils are brought for examination. In this way the amount of work done in the schools is made somewhat uniform; new teachers are kept informed as to the requirements; and pupils lose less time when a change of teacher or school becomes necessary.

Kindergartens. There are thirteen kindergartens. The number of pupils on the first of December was six hundred ninety-three, and the number of teachers twenty-six.

The cost of instruction for each pupil for the year has been twenty-two dollars three cents. This does not include the cost of supervision.

The following is from the report of the committee on kindergartens:—

During the year a new kindergarten has been opened, and, being in the Merrill schoolhouse, it was named the "Merrill Kindergarten." The committee think the value of kindergartens has been established when some of the most intelligent parents urgently request to have kindergartens opened that their children may attend them. The committee also believe that kindergartens are an important means in fitting children for the primary schools. They recommend the opening of five more kindergartens as soon as suitable rooms can be provided for their use.

The supervisor of primary schools, who has general supervision of the kindergartens, writes as follows:—

It is claimed for kindergarten training that, through association with others of like age, a spirit of brotherly love and helpfulness is fostered in the child; that the training of the senses so essential to clear perception is gained; that an intelligent love of nature and a tender care for all helpless creatures are aroused, and a respect for the various occupations of mankind is inculcated.

It further fulfills its mission in teaching the children to avail themselves of the opportunities all about them,—as was instanced, when, in

one of the most crowded sections of the city, the children found grass to mow and cows to feed.

When the weather permits a weekly excursion is made to the parks and to various points of interest in the vicinity. On these occasions the children are carefully taught their duty in regard to the preservation of these places, as well as the lesson which the mother play of the "Light-bird" impresses,—that what is intended for the enjoyment of all cannot be used for the selfish gratification of one.

Mothers' meetings have continued throughout the year with increasing interest. In several of the districts the mothers have organized into clubs to co-operate more effectively with the teachers for the best interest of the children. Two of these clubs furnish simple food for the children's luncheons. Another club has placed upon the walls of a kindergarten room two appropriate pictures in tasteful frames. In two kindergartens, outside organizations assist in making the mothers' meetings profitable and enjoyable. An evening reception to the fathers is another feature in the work of the mothers' clubs. It has been said, that in order to secure an unbroken, harmonious development for the child, home and school must work together. They must be one in spirit. These mothers' meetings are bringing the home and school closer together, and their influence is felt alike in the school and in the home.

Special Studies. The committee on special studies has the supervision of the instruction in nature study, drawing, music, and sewing.

Nature Study. The work in nature study includes the study of plant and animal life with some study of minerals and of weather phenomena.

The study of plants was first undertaken and still makes up the larger part of the work. The study of animal life consists mainly of lessons on insects and birds. The mineral work is confined to lessons on common metals and on building stones.

Plant life is studied in grades one to four inclusive; insects in grades one and two; birds in grades three and four; weather phenomena in grades one to three inclusive and minerals in grade four only.

Specimens chosen for study are those in which the pupils have a present interest, and all work is based on present experience. It is kept well within the capabilities of children, yet novel enough to require their best effort. Wherever it can be made to blend with other lines of school work, this is done.

The results sought are increasing knowledge of facts gathered by observation; familiarity with environment and a growing sympathy with nature.

The following is from the report presented by the committee :—

With the exception of slight changes made when the fourth grade took up the work, the course of study is as it has been for some years. Familiarity with the course is leading to more confidence in using it and therefore to better teaching each year. Over careful work is giving place to lessons more from the standpoint of the child's experience and interests. Facts learned from such lessons lose nothing in value while they mean much more to the children.

In the first grade, lessons given to one section of a class at a time are being substituted for general lessons, with good results. In the fourth grade, some out of door lessons have been taken and others may follow.

Four teachers' classes for study out of school hours have been formed. Nearly all are making an effort to keep growing plants in the schoolroom. Several requests to have the school grounds planted have been made. To these and simliar voluntary steps on the part of teachers much of the success of nature study must be credited.

Drawing. The course of instruction in drawing in the primary and grammar grades includes form, color, and designing.

The study of form, by means of type models and drawing, is begun in the first primary year, and is succeeded in the grammar grades by object drawing, drawing with instruments, and drawing from nature. The latter subject receives especial attention during the spring and autumn months.

Color is studied in all the grades, colored tablets being used in the primary grades and water colors in the grammar grades. Harmony and mixing of colors are treated as a science in special exercises; while color skill is artistically expressed in original designs, historic ornament, and nature study.

In design, attention is given both to construction and designing, embracing a large variety of subjects.

In the English high school, drawing is a required study the first year, and is carried forward upon a plan of which the following in an outline : —

Drawing from objects and from casts, drawing from nature of plant form, drawing to scale, designing (constructive and decorative), and color harmony.

Drawing, designing, or water color painting, may be taken as an elective study after the first year. The course of lessons includes landscape, still-life, and advanced designing.

In the English high school, the instruction in drawing is given by the director of drawing and his assistant. In the primary and grammar

grades, it is given by the teachers under the supervision of the director and his assistant.

In the Rindge manual training school there are two teachers of drawing, one of mechanical drawing, and the other of free-hand, and the work is done under their immediate instruction.

The following is from the report presented by the committee : —

The department of art study has progressed along the same lines as during the previous two years, and with generally satisfactory results. Studies, involving the use of water colors, as designing, nature study, and color harmony, show especially noteworthy success in all the schools.

Exhibitions which were held in some of the schools last spring attested to the genuineness of spirit in which the work is being performed. One of these individual exhibitions shared in the honors of furnishing means of instruction to the Cuban teachers at the Harvard summer school.

Some reference work on historic ornament, in color, would be a welcome help in the study of that subject. One such work for each grammar school would be sufficient.

The lengthening of the school term of the evening drawing schools from fifty evenings to sixty-five evenings appeared to be appreciated by the members of the drawing classes as the attendance the last fifteen evenings was fully sustained.

For a number of years Miss Emily D. Norcross was a faithful worker in the advanced classes, and the committee regret that her services could not longer be secured. Mr. George B. Ford, who now has charge of these classes, is doing the work successfully.

Music. Instruction in music by the National or Mason system is given by the regular teachers in the primary and grammar grades, and by the director of music in the Latin school and English high school. All the schools, excepting the Rindge manual training school, are under his supervision, and every pupil who is capable of learning to sing is required to give attention to the subject.

Twenty minutes a day in primary, and ten minutes a day in grammar grades are devoted to this study, and pupils are taught to sing and sustain their parts in reading compositions in two, three, and four parts.

In the Latin school and English high school forty-five minutes a week are given to the study of musical form and expression as found in choruses, quartettes, etc., from the standard operas and oratorios. Elementary harmony, elementary counterpoint and composition have been introduced as elective studies for the second and first classes.

In the Rindge manual training school a teacher of singing is em-

ployed a part of the time. He leads the singing at the morning exercises and gives regular instruction each day at that time.

The committee on music recommends that an assistant director of music be employed, and that a special appropriation be made for new music in the high schools.

Sewing. Sewing is taught to the girls of the three lower grades of the grammar schools, and to the boys of the fourth grade who desire the instruction. Forty-five minutes are given to the work once a week in each grade. Two teachers are employed the full time, and one teacher nine-tenths of the time. Nearly all of the boys of the fourth grade are learning to sew.

Cooking. Cooking is taught in the English high school to the girls who elect the domestic science course. This course became one of the high school courses in September, 1899. Girls of the ninth grade of the grammar schools who did not intend to go to the high school have been permitted to take one lesson a week in cooking during the last half of the school year, arrangements having been made for afternoon lessons at the high school building.

Hygiene. The following is from the report of the committee on hygiene: —

In October the committee on hygiene had the misfortune to lose its chairman, Dr. Taylor, who resigned from the school board. His loss has been a serious one. Early in the year arrangements were made with the board of health to have the rooms fumigated from which a contagious disease was reported, and the furniture washed with corrosive sublimate.

At the meeting in June an order was passed approving the new regulations of the board of health for making more effective the school inspection by the physicians of that board. This work was commenced in September and results will be noted by the board of health in their annual report in January. Until such report is made the committee on hygiene does not care to express an opinion as to the advisability of continuing the work.

At the May meeting an order was passed asking for eight thousand dollars to replace old furniture in the grammar and primary schools, but as yet nothing has been done about it.

Pupils should not be compelled to occupy desks and chairs the proportions of which are conducive to curvature of the spine, and the arrangement of which is injurious to the eyes.

Physical Training. The Ling system of physical training is used in all the grades of the primary and grammar schools. Games supplementary to the gymnastic work have been introduced throughout

the primary grades and the four lower grammar grades. These games are exercises in the form of play, and thus serve the double purpose of training and amusement.

Fifteen minutes are given each day to the gymnastic work. The instruction is given daily by the regular teachers under the supervision of the director of physical training, who visits each schoolroom, except those of the eighth and ninth grades, as often as time will allow, and who also holds meetings with the teachers.

The essential aim of the teaching is to make the gymnastic period one of healthful exercise and recreation. The work of the director of physical training is under the supervision of the committee on hygiene.

The following is from the report of the director to her supervising committee:— The present needs seem to be,—

1. A broader knowledge of the subject of physical training on the part of many of the teachers. This would of necessity result in a better presentation of the subject by them which would in turn arouse a deeper interest in the pupils. This could be accomplished by allowing the director of this department to form a class for teachers to be held in the Latin school gymnasium when the latter is equipped.

2. The extension of the supervision of the work through the eighth and ninth grades and the placing of a small amount of apparatus in each building containing these grades.

3. The grouping of boys and girls in separate rooms in the higher grades during the gymnastic period. Partly because of their freedom of dress and partly because of their greater interest in out of door sports, boys are able to take much stronger exercise than girls at this age. Girls, because of their conventional and in many cases unhygienic dress, and because of the greater demand on the nervous system at this stage of their development need more careful and less vigorous work.

4. A regular system of measurements taken at the beginning and end of the year in all grades above the fifth for the purpose of ascertaining facts relative to the growth of children, and also to arouse interest in the pupils themselves.

5. More time for games and gymnastics in the primary grades and a return to the out of door recess on such days as the weather will permit in all the primary schools provided with yards.

6. The immediate purchase of adjustable furniture sufficient to replace all, or at least half of the stationary furniture now in use.

She writes as follows in regard to the work in the gymnasium at the Latin school:—

In February last the gymnasium was opened for class work at the earnest solicitation of a number of girls from both the Latin and the English high schools.

The work was made voluntary, was entirely without apparatus, the classes being conducted on two afternoons each week between the hours of three and six o'clock.

Three separate classes, averaging sixty members each, were formed and the work continued till May 1st. The weather had by this time made out of door exercise more beneficial than indoor, and the size of the classes diminished to thirty each.

Many of the girls became quite interested, and taking into consideration the fact that the work was carried on under such adverse circumstances,—without apparatus, dressing-rooms, lockers, or use of baths, it is but fair to say that the experiment was attended with a fair amount of success.

The work in gymnastics has not been resumed this season, as it was not deemed wise to use the gymnasium for this purpose until the proper equipment had been furnished.

Basket ball teams, however, continue to use the gymnasium as during the past season, being under the direction of coaches selected and paid by the members of the team.

In closing she writes: The field is a large one. It presents wide opportunities and my hope is that the committee on hygiene will feel the necessity for reaching out and making physical training a department which shall not be as at present a side issue, but a department which shall take first place in importance, for upon the physical well being of the child depends his intellectual development, and upon both depend his usefulness as a future member of society.

School Libraries and the Public Libraries. The English high school has a library of about three thousand volumes. The Latin school has only about one-third of this number. Comparatively few books of a miscellaneous character have been added to these libraries for several years, the public library meeting the demand for such books. The need of the schools is for books of reference and for sets of books for class study.

The grammar schools, with the exception of the Morse and Webster, are not supplied with books for general reading. These are obtained from the public library, and during the year ten thousand one hundred seventy-three books have been delivered to the schools, an increase of nearly twenty per cent over last year.

The library and the schools are brought into close relation to each other. The librarian and his assistants spare no pains in making the library serviceable to teachers and pupils alike. During the past year one of the assistants, Miss Russell, gave at the request of the librarian two lectures to pupils of the Latin school, on the use of books, particularly

with regard to the reference library. These lectures proved to be so helpful that by request they will be repeated this year.

Evening Schools. The following account of the evening schools is given by Mr. Hubbard, the agent of the school committee, who has the general supervision of these schools: —

There are seven evening schools — two drawing schools, one high school, and four elementary schools. In accordance with the rules of the school board, there are two terms of the evening schools. The first term begins on the second Monday of October, and continues every Monday, Wednesday, and Friday evening until the end of the week before Christmas. The second term begins on the first Monday, Wednesday, or Friday evening after the opening of the day schools in January, and continues thirty-five evenings. The sessions begin at half past seven and continue two hours. No session is held on the evening of a holiday, or during the vacations of the day schools.

The evening drawing schools are under the supervision of the director of drawing for the day schools. There are two of these schools, one for instruction in mechanical drawing, which occupies four rooms in the Central square building, and one for instruction in free-hand drawing, which occupies the drawing room in the English high schoolhouse. In the mechanical school two courses are provided,— a three years' course in machine drawing, and a three years' course in architectural drawing. In the free-hand school provision is made for a three years' course in free-hand drawing. Diplomas are given to graduates of either course.

The evening high school is held in the English high school building, and offers a three years' course of instruction in the following subjects: arithmetic, bookkeeping, penmanship, English composition, English literature, civics, history, algebra, geometry, stenography, Latin, French, and German.

The evening elementary schools occupy rooms in four of the grammar school buildings, the Allston, Putnam, Shepard, and Webster. Reading, writing, arithmetic, geography, language, history, and bookkeeping are taught in these schools in classes so far as classification is possible but a large part of the work is individual. No definite course is arranged, but an opportunity is offered to pupils to prepare to enter the evening high school, and certificates of admission are given to those who are qualified to begin the work in that school.

The following table shows the attendance of the evening schools for the year 1899–1900 : —

	Number Registered	Average Attendance	Average No. of Teachers*	Average No. of Pupils to a Teacher	Number of Graduates
Mechanical Drawing...	108	61	4	15	8
Free-hand Drawing....	76	38	2	19	7
High School.....	369	150	8	19	17
Allston School.....	304	106	16	7	16
Putnam School.....	231	72	9	8	12
Shepard School.....	174	32	6	5	4
Webster School.....	170	60	7	8	9
Total	1,432	519	52	10	73

* The principals and curators are not included in these averages.

The following table shows the cost of the evening schools for the year 1899–1900 : —

	Cost of Instruction	Cost of Text-books and Supplies	Cost of Light, Fuel, and Janitor	Total Cost	Cost per Pupil
Mechanical Drawing..	$947 00	$55 36	$208 62	$1,210 98	$19 85
Free-hand Drawing...	483 00	13 40	67 90	564 30	14 85
High School.....	1,874 00	113 14	611 08	2,598 22	17 32
Allston School.....	1,362 50	69 40	221 30	1,653 20	15 60
Putnam School.....	797 50	18 60	212 78	1,028 88	14 29
Shepard School.....	556 50	27 47	156 05	740 02	23 13
Webster School.....	658 50	20 34	206 95	885 79	14 76
Total	$6,679 00	$317 71	$1,684 68	$8,681 39	$16 73

This year for the first time the evening schools were in session for sixty-five evenings, instead of fifty. The average attendance of all the evening schools for 1898–1899 was five hundred fifty-one, and the cost per pupil was thirteen dollars fifteen cents. The average attendance for 1899–1900 was five hundred nineteen, and the cost per pupil was sixteen dollars seventy-three cents, an increase of three dollars fifty-six cents per pupil for the additional fifteen evenings.

The first term of the present year, 1900–1901, opened October 8, with a larger registration, and, to December 1, a larger attendance than last year. The total registration to December 1 was one thousand four hundred forty-nine, and the average attendance, seven hundred thirty-eight. The total membership on December 1 was six hundred twenty-

five, — less than one-half the number registered to that date. This large loss of those who register but do not continue to attend the schools is the discouraging feature in evening school work.

That many enter the schools from curiosity or for amusement is probable, but it would seem that something is wrong when we fail to interest and benefit more than half of those who enter. The reason of this failure and its remedy are our problems.

The teacher is the largest element of success in evening school work. More than in any other school, his teaching power, enthusiasm, and personality hold the pupils.

The classes which have the best attendance are those in mechanical drawing, those in the high school, and those preparing for that school, those in bookkeeping, and those learning to read and write English. This indicates that classes offering what meets a recognized need or an earnest desire hold best as well as confer the most benefit.

Can we not offer something that will interest and hold and benefit many of the large number who enter our schools but attend only a few evenings? Perhaps manual training in its several branches, — carpentry, drawing, sewing, cooking, etc., — and other branches of recognized practical value would interest many of those who do not appreciate the value of mental training by means of the ordinary school studies.

From these considerations it would seem that the first necessity is to employ the best skilled teachers for this work. This will require increased salaries, but not necessarily increased expense; for a skilled teacher will instruct more pupils and accomplish better results than the young teachers now employed are able to do.

The subjects taught should be interesting and helpful to the large number of young men and women for whose benefit the evening schools are established.

Vacation Schools. Vacation schools were started in Cambridge by a committee of ladies from the mothers' club. For four years these schools were carried on under the direction of this committee, the expense being met by private contributions. The school for boys occupied the Rindge manual training school building, and that for girls the Holmes schoolhouse. The one for girls was not opened until 1897.

In 1899 by an act of the legislature the school committee of any city or town was authorized to establish and maintain vacation schools. At the meeting of the school committee in December, 1899, it was voted to establish vacation schools during the following summer, provided the city council should appropriate two thousand dollars for their maintenance. The appropriation was made, and at the April meeting of the school board a special committee was appointed in accordance with the following vote:

"Ordered, that a committee of five members, one from each ward, be appointed to supervise the vacation schools; that the superintendent be authorized, in consultation with the committee on vacation schools, to make all arrangements for such schools during the ensuing summer; and that he be authorized, after consultation with this special committee, to nominate not later than at the regular meeting in June, the principal or principals of the vacation schools, and to appoint all assistants, as they may be required."

At the meeting in June the committee presented a report giving in detail the plan for organization, as follows:—

In planning for vacation schools to be maintained at public expense, it became necessary to decide (1) to what class of children the school shall be open; (2) on what basis pupils shall be admitted when the number of applicants in any class or grade shall exceed the number for which provision can be made within the limits of the appropriation. The committee decided that it is best to arrange for children of the grammar school age.

Accordingly the following circular letter was sent to the grammar schools including the parochial schools: — "How many pupils in your school, not including the ninth grade, would like to attend a vacation school for two hours a day for six weeks, it being understood that they shall be regular in attendance?

The boys of the sixth, seventh, and eighth grades will have sloyd as a part of their work, and the girls sloyd, cooking, or dressmaking. The pupils of the fourth and fifth grades will have lessons in reading, drawing, and other studies of an interesting and practical character."

The answers to this circular indicate that from sixteen hundred to seventeen hundred pupils desire to attend the vacation schools.

It is proposed to arrange these pupils in separate schools as follows:—

(1.) Four classes of eighty boys each in sloyd, at the Rindge manual training school, in charge of two sets of teachers. Two of these classes to have sessions of two hours each in the forenoon, and the other two to have similar sessions in the afternoon; the sessions to continue for six weeks.

Four classes of forty-eight girls each in cooking, at the English high school, and four classes of forty boys or girls each in sloyd. Two of these classes to have sessions of one and one-half hours each in the forenoon, and the other two to have similar sessions in the afternoon, one hour of each session being given to cooking or sloyd; the sessions to continue for six weeks.

Two classes of twenty girls each in dressmaking, at the English high school; one class to have a session of two hours in the forenoon and the other a similar session in the afternoon; the sessions to continue for six weeks.

Four classes of thirty pupils each (boys and girls of the fourth and fifth grades) in East Cambridge; two of these to have sessions of two hours each in the forenoon, and the other two to have similar sessions in the afternoon; the sessions to continue for five weeks. Also four similar classes in North Cambridge and four in Cambridgeport; all the arrangements being the same as at East Cambridge.

Two kindergarten classes for the benefit of the Cuban teachers at the Latin schoolhouse; the classes to be of twenty pupils each, in charge of two teachers; the sessions to be in the forenoon, and to continue for four weeks.

Last year the schools were maintained by subscription. The sessions were of three hours each, one being in the forenoon, and the other in the afternoon. The number of pupils was three hundred fifty-two.

In order to provide for the large number of pupils who desire to attend these schools this year, the committee have arranged, as far as practicable, for four sessions a day, two in the forenoon and two in the afternoon, thereby making provision for eleven hundred and twelve pupils.

This plan was carried out and the following is the report of the committee on the work of these schools with its recommendations:—

Average Attendance.

Rindge Manual Training School, sloyd and drawing	264.6
English High School, sloyd and academic studies	120.6
English High School, cooking and academic studies	114.6
English High School, dressmaking	36.0
Allston, Putnam, and Shepard Schools, academic studies	242.9
Kindergartens in Latin Schoolhouse	40.3

The total cost of carrying on these schools, exclusive of use of buildings and furniture, was one thousand nine hundred ninety-six dollars eleven cents for eight hundred nineteen pupils; so that for an average cost of two dollars forty-three cents these children were taught for two hours daily during from five to six weeks to use their hands, eyes, and ears in such a way as to be profitable to themselves and of advantage to the community.

Although not intended at the outset, these schools, especially the kindergartens, served as an object lesson which was highly appreciated by the Cuban teachers, many of whom were constant visitors.

To the superintendent, who carefully arranged and most successfully carried out the plans for the vacation schools, and to the supervisor of primary schools, who took particular charge of the kindergartens, great credit is due, and especially since in so doing they gave up a good part of their own vacations.

By the kindness of Gen. Bancroft, the children living near Columbia street were carried in the cars free of expense to and from the kindergartens in the Latin school building.

In view of the success which has attended this experiment in Cambridge (which has been followed in many other cities and towns this year) the committee recommend the adoption of the following votes:—

(1.) That this report be printed in the proceedings of this meeting, and that a copy of this report, including that presented on June 21, 1900, be sent to the mayor and to each member of the city council, and to such other persons as the superintendent may think proper.

(2.) That the committee on finance be requested to include in the estimates for the year 1900-1901 the sum of two thousand dollars for vacation schools.

Truant Officers. Four officers are employed. The city is divided into four districts, and each officer has assigned to him the schools in one district. Among their duties are the following: to visit each school at least once a day, unless otherwise directed by the agent; to prevent children from loitering about the school premises; to notify the teachers of all cases of contagious and infectious diseases reported by the board of health; to attend the evening schools to assist in the preservation of order; and to visit places of business where children are employed to see that none are unlawfully employed. They make all complaints for truancy, absenteeism, or school offences at the district court; attend the trials as witnesses, and take boys to the Middlesex county truant school when they are sentenced.

By the rules of the school board the work of the truant officers is done under the supervision of the committee on schoolhouses; and under the direction of this committee it is the duty of the agent of the Board to consider all cases of truancy, of persistent violation of the rules of the school, of juvenile vagrancy, of unlawful detention from school, of neglect by parents; and of any failure on the part of pupils or parents to comply with the rules of the school committee or the public statutes relating to school attendance. It is also the duty of the agent to direct the officers to make complaints; to certify the records in these cases when presented before the district court; and to exercise such supervision of the boys who are sent by the court from Cambridge to the truant school as may be allowed under the statutes.

The following is from the report of the committee in charge of the work of the truant officers:—

Whole number of absences investigated	16,189
Truancy, first offence	583
" third "	131
" fifth "	151
Complaints at court	37
Children put on probation	9
Sentenced by the court	27
Visits to mercantile establishments	191

One year ago we had at the truant school thirty-eight boys. Since then twenty have been discharged and seventeen committed, so we now have thirty-five. The average number is thirty-two, and the cost for the year is one thousand seven hundred four dollars twenty cents, or fifty-three dollars twenty-six cents for each truant.

Last year the law which required that the school census be taken in September was observed, and men were employed for this purpose. These were directed and assisted by the officers, but the results were not satisfactory. As there was no appropriation for taking the census this year, the work was done by the truant officers with some assistance. The following is the summary of the school census for 1900:—

Number of children in the city between five and fifteen, boys, 7,415; girls, 7,716	15,131
Number in public schools between five and fifteen	12,551
Number in public schools fifteen years old or more as shown by the school register	1,482
Number in private schools between five and fifteen	2,166
Number not attending school between five and seven	225
Number not attending school between seven and fourteen	74
Number not attending school between fourteen and fifteen	115
Whole number not attending school between five and fifteen	414
Number in the city between five and six	1,714
Number in the city between seven and fourteen, boys, 5,178; girls, 5,477	10,655

In closing the committee would express their satisfaction with the work of the truant officers. They feel that the manner and spirit with which it has been done cannot be too highly commended.

Janitors. Section 31 of the city charter provides that "The mayor shall appoint the janitors of schoolhouses, subject to confirmation by the school committee, and may remove them at pleasure for cause assigned; and such janitors shall perform their duties under the direction of the school committee."

Under the direction of the committee on schoolhouses, the agent supervises and directs the work of the janitors, and reports to the committee such matters as seem to need their consideration. The principals of the schools report each month whether or not the work is done in a satisfactory manner.

The heating of the schoolhouses is under the charge of a person appointed for especial fitness for this work, Mr. Edward B. Dale, who has rendered valuable service during the past four years.

The agent reports that except in a few instances the work of the janitors has been done satisfactorily and in a spirit of pride in doing their work well.

Contagious Diseases. In 1894 the board of health, in accordance with the request of the school committee, appointed a physician, whose duty it is to examine all cases of contagious diseases reported, and to

direct the exclusion from the schools of all pupils whose presence will, in his opinion, be a menace to the health of others. He reports his action on every case to the secretary of the school committee. The physician issues all certificates authorizing such children to return to school, as provided by Chapter 496, Section II., Acts of 1898.

As a further precaution against contagious diseases, the board of health established, February 26, 1896, a system of medical inspection of children in the schools. The city was divided into six districts, in each of which a physician was appointed to visit the schools in that district. The duties of these physicians as now defined are as follows: to visit the schools subject to their inspection during the morning session of every school day; to examine such children as are indicated to them by the teacher as having complained, or as appearing to be suffering from disease; to inspect such other children or such parts of the building as they deem necessary for the protection of the pupils, examining at least one school each day; to recommend to the principal to send home immediately any pupil whom they may suspect of having any infectious or contagious disease, and also in cases of nearsightedness or deafness of pupils, to advise the parents to have the eyes or ears of such pupils examined. On the first of each month, the physicians send a report of their work to the board of health.

The secretary of the school committee, to whom the physician of the board of health reports all cases of contagious diseases, gives the following statements: —

During the year, December 1, 1899, to December 1, 1900, the number of contagious diseases reported was as follows: diphtheria, nine hundred twenty-four; membranous croup, twenty-five; scarlet fever, one hundred eighty-seven; and measles, one hundred forty-four. Since the schools opened in September, there have been an unusually large number of cases of diphtheria — three hundred eighty-two. These have not been confined to any section of the city, but have been more numerous in Wards Two and Three. As an effort to prevent the spread of the disease, thirty-eight rooms have been fumigated, and the furniture in four rooms has been disinfected by washing with corrosive sublimate. The fact that many of the persons affected are not connected with the schools, and that those who are members of the schools were so scattered that rarely was there more than one case in a room in any week, though there were sometimes three cases in a family, seems to show that the disease develops, not from the condition of the schools, but from that of the homes.

Teachers, Appointments, Resignations. There are now four hundred nine teachers in the schools. Thirty-two of this number have been appointed during the year; eighteen have resigned; five have been given

leave of absence for rest or for some special reason; and three are absent for the purpose of study or travel under the following rule of the school committee: — "Any teacher who has served in the city for ten years may, on recommendation of the superintendent and vote of the Board, have leave of absence for one year for purposes of travel or study, and may receive one-third of his salary."

This report is for the year 1900, but a death has occurred so near the beginning of the year 1901 that it seems best to make mention of it in this report. Miss Kate F. Wellington died January 27. Miss Wellington had been for nearly twenty-seven years a teacher in the Otis school. She was an earnest, faithful, conscientious teacher, and was highly esteemed by those who knew her.

A person to be eligible to the position of teacher in a kindergarten must have had a course in a high school, a course in a kindergarten normal school, and must be able to play the piano; to be eligible to a position in a primary or grammar school, he must have had a course in a high school, a course in a normal school, and a year's experience in teaching; to be eligible to a position in a high school, except in the manual training department of the manual training school, he must be a college graduate. Equivalent preparation may be accepted.

When a teacher has been nominated for a position in a kindergarten or primary school, or for a position below that of principal or master in a grammar school or high school, two persons of experience among the teachers who are not connected with the school in which the nominee is to serve, are deputed by the superintendent to visit the teacher nominated and to examine him at work. Each person so deputed reports in writing to the superintendent; and these reports are kept on file by him, and are open to inspection by members of the Board only. For a nomination to a position in a high school, the superintendent, with the consent of the committee on high schools, may dispense with such examination, or may depute as examiners teachers connected with the school in which the nominee is to serve or persons not in the service of the city.

The committee on teachers considers all nominations made by the superintendent. They confer with the superintendent, consider the reports of the examiners deputed by him, make further inquiry at discretion, and report to the Board for final action.

Any nomination referred to the committee on teachers elapses at the expiration of four months, not counting the summer vacation. A person who has failed of confirmation is not to be nominated to a similar position within two years, except on the approval of this committee.

This committee inquires and reports to the Board in executive session, as to the success of any teacher in the employment of the city, when so requested by any member of the Board or by the superintendent; and no

teacher whose success is under inquiry receives the regular increase of salary, except on the recommendation of this committee.

Experience in teaching, whether in or out of the city, may be considered in fixing the salaries of teachers.

Under the direction of the superintendent, teachers may visit other schools to observe the discipline and instruction. They may be required to attend teachers' meetings or courses of instruction in methods of teaching for one hour a week. Such meetings may be held on Saturday mornings during term time or at such other time, not in school hours, as the superintendent may direct. Meetings in addition to those indicated above may be held by the superintendent or may be called by him, on request of directors of special subjects.

SALARIES OF TEACHERS AND SCHOOL OFFICERS.

LATIN SCHOOL AND ENGLISH HIGH SCHOOL.

Head Masters	$3,000 00
Masters	2,000 00
Masters' Assistants	1,200 00
Teachers, first year	700 00
with an annual increase of $50 until $950, the maximum, is reached.	
Assistant Teachers, first year	500 00
" " second year, and each succeeding year	600 00
Substitutes, each session	3 00

RINDGE MANUAL TRAINING SCHOOL.

Head Master	$3,000 00
Master's Assistant	1,300 00
Teachers, academic side, first year	700 00
with an annual increase of $50 until $1,000, the maximum, is reached.	
Teachers, manual training side, salaries range from $800 to $1,500.	
Substitutes, each session	3 00

WELLINGTON TRAINING SCHOOL.

Master	$2,500 00
Supervising Teachers (three) first year	900 00
" " second year and each succeeding year	1,000 00
Master's Assistant, first year	800 00
" " second year and each succeeding year	900 00
Teachers of the eighth grade	700 00
Teachers of the seventh grade (one year's experience)	450 00
Teachers of the other grades	250 00

GRAMMAR AND PRIMARY SCHOOLS AND KINDERGARTENS.

Masters of grammar schools	$2,000 00
Sub-masters, first year	1,000 00
with an annual increase of $100 until $1,400, the maximum, is reached.	
Masters' Assistants, first year	800 00
" " second year, and each succeeding year	900 00
Teachers of the ninth grade, first year	750 00
" " " " second year, and each succeeding year	800 00
Special Teachers in grammar schools, first year	700 00
" " " " " second year, and each succeeding year	750 00

GRAMMAR AND PRIMARY SCHOOLS AND KINDERGARTENS.

Principals of primary schools, first year	$700 00
" " " " second year, and each succeeding year	750 00
with five dollars additional for each room under her supervision.	
Teachers of grammar and primary schools, and principals of kindergartens, first year	450 00
with an annual increase of $50 until $700 is reached.	
Substitutes, continuously employed	400 00
" in grammar and primary schools, each session	1 00
" in kindergartens, each session	1 00

SPECIAL TEACHERS AND OFFICERS.

Director of Music	$2,000 00
Director of Drawing	1,800 00
Assistant Teacher in Drawing	800 00
Director of Nature Study (three-fifths time)	1,000 00
Director of Physical Training	900 00
Teachers of Sewing	600 00
Superintendent of Schools	3,500 00
Supervisor of Primary Schools	1,200 00
Agent of the Board	2,100 00
Truant Officers (four are employed)	1,000 00
Secretary of the School Committee	400 00
Page of the School Committee	25 00
Secretary and Librarian of the Latin School	550 00
Secretary and Librarian of the English High School	600 00
Secretary and Librarian of the Manual Training School	450 00

The following rules apply to special cases: —

Upon the recommendation of the superintendent and the committee on teachers, the salary of a teacher in a grammar or primary school or of the principal of a kindergarten may be increased from $700 to $750, provided such teacher has served at least one year. The number of teachers whose salaries may thus be increased is not to exceed one-third of the whole number of teachers in these grades.

Assistant teachers, that is, teachers not in charge of a room, are paid $450 the first year, $500 the second, and $550 the third and each succeeding year; and in the case of assistants in the kindergartens, $600 for the fourth and each succeeding year.

Terms, Holidays, and School Hours. The school year is divided into three terms: —

The time for beginning the autumn and spring terms, and for closing the winter and spring terms, is fixed annually at the regular meeting of the committee in February. The autumn term ends December 23. The winter term begins January 2 (or the day after that celebrated as New Year's Day).

The holidays are Saturdays; Thanksgiving day, with the preceding day and the day following; the twenty-second of February; the nineteenth of April; Memorial day; the seventeenth of June; and in addition to these, for the high schools, Commencement day at Harvard College.

The sessions of the high schools begin at 8.30 A. M., and end at 1.30 P. M. The sessions of the manual training school begin at 8.30 A. M., and end at 2 P. M. These schools have a recess of half an hour in each session.

With the exception of the Russell school, the morning sessions of the grammar and primary schools begin at 9 and end at 11.45. The afternoon sessions begin at 2 and end at 4, except during the months of November, December, and January, when they begin at 1.30 and end at 3.30. The grammar and primary schools have no outdoor recess. The sessions at the Russell school begin at 8.30 A. M., and end at 1.30 P. M.

The sessions of the kindergartens are from 9 A. M. to 11.50 A. M.

COURSES OF STUDY IN THE GRAMMAR AND PRIMARY SCHOOLS.

One year ago the school committee voted that the superintendent should have authority to vary the program of work in any school when he should deem it advisable. This action was taken on the recommendation of the committee on special studies. This committee, while recognizing the ability and faithfulness of the special teachers, raised the question whether in their enthusiasm for their work they were not expecting and asking too much of both teachers and pupils. At the meeting of the Board in April a special committee of five was appointed to inquire into the advisability of rearranging the courses of study in the primary and grammar grades. This committee having considered the subject from time to time reported in December that the work had not been completed, and expressed the hope that a committee from the Board of 1901 would be appointed to carry it forward to its completion.

The courses of study have remained substantially unchanged since 1892 in the grammar schools and 1893 in the primary schools. These courses were adopted upon the recommendation of special committees appointed to consider the courses of study in these schools with a view to shortening and enriching the program. These committees, two in number, consisted of five members each. One committee gave special attention to the work for the grammar schools, the other to that for the primary schools. Probably never before in the history of our schools has so much time been given to the consideration of courses of study for these grades. Meetings were held weekly for nearly two months by the committee considering the grammar school course, and nearly the same amount of time was devoted to the consideration of the primary school course.

For seven years or more the work has gone on as outlined in these courses, and the results in the main have been satisfactory. There is a feeling, however, more or less prevalent among the teachers that the work of the schools is crowded. How shall the needed relief be obtained? This is the question to which the superintendent and the supervisor of primary schools are giving special attention. To aid in solving it the teachers of the first and second grades, the grades in which relief seems most needed, were invited to suggest such changes as in their opinion would simplify their work. Forty-five letters were received, and the suggestions therein have been studied and classified.

From these letters it is evident that a large majority of the teachers of these grades believe that the time given to the different subjects should be reapportioned, more time being given to reading, spelling, and language,

and less time to nature study, music, and drawing. For some time past the directors of special studies have been arranging their work so that each subject should be helpful to others. Some of the poems to be memorized have been selected by the director of nature study with special reference to her work, and many of these have been set to music by the director of music. The teacher of drawing has planned to have the study of pictures and the drawing of natural objects coincide each month with the work in nature study, and the work in nature study has formed the basis of much language work.

It is now proposed that lessons in nature study and drawing shall not occur daily as heretofore, the plan being to have two lessons a week in drawing and three in nature study during the five months of the school year when plant life can best be observed, and during the other five months to have two lessons a week in nature study and three in drawing.

By this arrangement the number of lessons will be reduced one-half. It is intended, however, to reduce the time only one-third, giving to these subjects two hours a week instead of three, thereby leaving one hour a week for the subjects requiring more time.

To secure more definite work in spelling, a list of words for each grade will be prepared which is to receive special attention. At the request of the superintendent each teacher of the first grade has already sent to his office a list of one hundred words the spelling of which in her opinion should be taught in that grade. Four hundred seventy-nine words were included in these lists. From this number the supervisor of primary schools has selected the words which are found to require frequent use before the spelling is fixed. These words will be printed and sent to the teachers of the second grade, and each teacher of that grade will be requested to prepare a list of two hundred words without including any of those in the list for the first grade.

When the supervisor of primary schools has decided on the words for the second grade, the teachers of the third grade will be requested to prepare a list of three hundred words for that grade, and this list is not to contain any word already selected for the other grades. It is not intended that the teaching of spelling shall be confined to these lists. All words used in the language work are to be taught. Those on the lists are selected because they require special drill.

In considering the course of study for the grammar schools the same plan will be pursued. The teachers of the several grades will be invited to suggest such changes as seem to them desirable, and these suggestions will be carefully considered.

It is not to be expected, however, that any course of study will meet the views of every teacher. The differences of opinion will not be so

much as to what subjects shall be taught, as to what shall be taught in each subject. The present courses of study, as has been said, received the most careful consideration at the time of their adoption; and it appears to the superintendent and the supervisor of primary schools that no radical changes are required. The needed relief will come by simplifying the work in several subjects and increasing the time given to others.

There have been so many calls for the Cambridge courses of study that the supply at the office of the superintendent has been exhausted, and copies from the schools have been collected to meet the demand.

The superintendent therefore joins in the recommendation that a committee of the Board of 1901 be appointed to carry the work of revising the courses of study for the grammar and primary schools forward to its completion. The revised courses should be printed before the opening of the schools in September.

CUBAN TEACHERS.

The Cuban teachers arrived in Cambridge after the schools closed for the summer vacation. There was no opportunity, therefore, for the Cambridge teachers as a body to meet them and show them special attention. Had the schools been in session, it would have given the teachers great pleasure to welcome them to their schoolrooms and show them the work as it was going on. As it was, arrangements were made which enabled the Cuban teachers to see several of the schoolhouses and some of the school work. Vacation schools were in session, and these were open to their inspection at all times, giving them an opportunity to see work in sloyd, cooking, dress-making, and drawing. There were also two kindergarten classes, and these attracted many visitors.

The schoolhouses opened for their inspection were the three high school buildings, the Peabody schoolhouse, and the Morse schoolhouse. The Peabody schoolhouse was selected because it is undoubtedly the best arranged building for grammar and primary school purposes in the city. The Morse schoolhouse was opened, not so much to show the building, as to show the pictures which adorn the walls and its library of choice books, —all the gift of him whose name the school bears.

The special provision made for these teachers was an exhibition in drawing, a full account of which is given in the following report of the director of drawing: —

"When it was definitely announced by the authorities of Harvard University that some fifteen hundred Cuban teachers would attend a summer school course in Cambridge, it was too near the end of the school year to allow of any elaborate arrangements whereby the public

schools might render service in the undertaking. That the Cambridge schools should in some practical way participate in hospitality towards the hundreds of visiting strangers was deemed desirable.

The vacation schools would furnish something that could not fail to interest these teachers, but would not illustrate properly the regular work of our schools. This could be done in vacation time only by showing some features of the work, such as drawing, written work, etc. It has been the custom near the close of the school year in several of the grammar schools to collect from the different rooms specimens of work for a public exhibition. It occurred to the master of the Webster school that an exhibition of this kind would be interesting to the Cuban teachers, and he kindly offered to let his exhibit remain standing for this purpose. The convenient location and spacious hall of this school were good reasons why it should be chosen. In order that a comprehensive idea of the entire course might be gained, specimens of work in the primary schools were gathered from different parts of the city and given place with the work of the Webster schools. Exercises in sewing from grades four, five, and six were also placed on exhibition.

All the work shown upon the walls was neatly mounted on grey cardboard, grouped according to grades and topics, and properly labelled. Upon shelves below were hundreds of exercises in penmanship, arithmetic, geography, composition, illustrative drawing, etc., representing every pupil in the school. Though the bulk of the work pertained to the study of form, color, and design, there was also included every kind of school exercise that can be shown upon paper with pen, pencil, or brush.

The progressive development of each art topic was plainly shown by a great abundance of illustrations from the work of the pupils. Much of this work showed skill in the conception and execution of designs; in the rendering of natural effects by shading and color, upon fruit and sprays of plants; and in work from the object, including practical drawings and house plans from the pupils' own observations. Many other illustrations of the far-reaching influence of the art lessons were apparent.

This collection of pupils' work has been accepted by the superintendent of public instruction of Cuba as a gift from the Webster school to the cause of education in Cuba, and it may be reasonably supposed that this token from the children of Cambridge may help to kindle in many a young heart, in that sunny land, a desire for worthy attainments.

That the opportunity afforded the Cubans to study the work of our schools was valued highly by them was manifested in various ways. A very substantial demonstration of this was the gift of one hundred dollars by the teachers of Santa Clara province as prizes for the best art work by the girls and boys of the Cambridge public schools."

The gift referred to by the director of drawing, if used in the way proposed by the Cuban teachers, will be applied as follows: — Fifty dollars will be given as a prize to the girl who shall make the most progress in a class of drawing or painting, and fifty dollars to the boy who in a contest shall produce the best work in clay modelling. It was left to the mayor of Cambridge to modify these prescriptions as necessity may require. It is always difficult to select from a large number of specimens one that is clearly better than any other, or to decide which of a large number of pupils has made the most progress. As clay modelling is not taught in the schools, there can be no contest in that work. A necessity exists, therefore, for some modification of these prescriptions. The Cuban teachers from Santa Clara province evidently sought to show by this generous gift their appreciation of what had been done to make their stay in Cambridge both pleasant and profitable. The subjects for which the prizes were offered would indicate that they had especially in mind the exhibition above described, and this exhibition was the thought of the master of the Webster school.

Were these teachers now in Cambridge, the superintendent would not hesitate to suggest to them that the money be applied in a different way, — in a way which would make the gift of more permanent value, and keep in mind an event unique in itself, and which in the future will become historic.

The suggestion would be that the money be spent for a lantern and slides for the use of the Webster school. Cuban views of special interest should be among the first selected.

Some action of the committee will be required before the money can be used for any purpose.

MIDDLESEX COUNTY TEACHERS' ASSOCIATION.

For the past ten or twelve years the meetings of this association have been held on the last Friday in October, and each year the question has arisen whether the schools shall be closed that the teachers may attend these meetings.

It seems to the teachers and the superintendent that this question should not come up for consideration from year to year, but that it should be definitely settled. It really should be settled not only in Cambridge but in the other cities and towns of the county, for the officers of the association, in making their arrangements, should know the probable number of teachers who will be present at the meetings.

In 1899 the Cambridge schools were not closed, but in 1900 the school committee voted to close them, it being understood that an effort would be made by the Cambridge teachers to have the time of holding the meetings of the association changed to a day on which schools were not in session. The meetings of the Massachusetts Teachers' Association are held on the Friday and Saturday following Thanksgiving day, and those of the Classical and High School Association on a Saturday.

In accordance with this understanding, the principals of the Cambridge grammar schools appointed a committee, consisting of Messrs. Davis, Cutter, and Freese, to bring before the association the question of changing the day of its meeting.

The following statement and motion were submitted by the committee: —

"For upwards of twenty years to and including the year 1889 the annual meetings of this body were held on the Friday following Fast day, a day which was a holiday for a large proportion of the schools of the county, and consequently at the command of a majority of the teachers without the necessity of asking leave of absence from the committee in charge of the schools. At the annual meeting in April of that year it was voted, contrary to the report of a committee appointed to consider the subject, that future annual meetings should be held on the last Friday in October. The object of the change was that the suggestions, advice, and instruction given at the meetings of the association might be an inspiration to teachers at the opening of the year's work, and not be delayed until the record of the year was well nigh completed, which was truly a laudable end to be secured. It was, however, brought forward as an objection to the change that the association was planning to hold its meetings on a day that was not its own to use in that manner, and that if the change was made to the earlier part of the school year it should be

to a Saturday, that being the only non-school day of the secular week; and it was also intimated by those accustomed to judge of the opinions of those who compose our school boards, that the action of such Boards could not be depended upon as certain to favor the teachers in placing the day at their disposal. So far as the city of Cambridge is concerned, the result has proved that those forebodings were not without reason. The schools have from time to time, but not uniformly, been closed to allow our teachers to meet with the association, but this has been rather as a matter of courtesy to those representatives of the city whom the association has honored by election to official position than as a settled policy. The school regulations do not recognize the day, and the principals of the grammar schools are not agreed as to the advisability of asking the Board to close its schools, especially when the request must be repeated from year to year. Under these conditions, the interest of one of the largest cities in the county cannot be actively felt or expressed in the affairs of the association, and it is well known that the same state of things prevails in other municipalities. We believe that the date of the meeting of this body should be carefully considered, and that the best interests of the association imperatively demand a change.

This assembling of ourselves together is pleasant and profitable. For some of us it has been the custom of the greater part of our lives. The teachers of Cambridge wish to contribute to the association's success, and to strengthen the ties which should personally unite us as fellow-workers in the common cause; but in order that we may do this we believe that this, our voluntary organization, must be provided for at times and seasons which are in our own control. That the subject may have the consideration which its importance demands, we recommend the passage of the following motion:—

That a committee of five be appointed by the retiring president, who shall, with the executive committee, have full power to fix the date for the next annual meeting of the association, and may consider and recommend such action by the association in reference to its future meetings as will in their opinion conduce to its continued prosperity."

This motion did not prevail, and the next meeting of the association will be held on a school day. The superintendent therefore recommends that the question of closing the schools on the day of the meetings of the Middlesex County Teachers' Association be referred to the committee on rules, with instructions to report before the summer vacation.

FRANCIS COGSWELL,
Superintendent of Public Schools.

In School Committee, February 21, 1901.

Ordered, That the report of the superintendent as read and outlined by him be accepted and adopted as the annual report of the school committee for 1900, and that the secretary be authorized to append the names of the members thereto.

SANFORD B. HUBBARD,
Secretary.

Members of the School Committee for 1900

EDGAR R. CHAMPLIN, *Chairman ex officio.*

WILLIAM TAGGARD PIPER.	PHILIP M. FITZSIMMONS.
FRANK W. TAUSSIG.	CHARLES F. WYMAN.
CHARLES H. THURSTON.	MARY E. MITCHELL.
ROBERT O. FULLER.	†ROBERT E. ELY.
CAROLINE L. EDGERLY.	CAROLYN P. CHASE.
GEORGE W. BICKNELL.	‡FREDERIC W. TAYLOR.
EDWARD B. MALLEY.	SETH N. GAGE.

*CARRIE S. FAIRBAIRN.

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* Resigned Nov. 15, 1900. † Resigned Nov. 15, 1900. ‡ Resigned Sept. 20, 1900.

APPENDIX

ORDINANCES

PASSED BETWEEN FEBRUARY 17, 1900, AND FEBRUARY 27, 1901

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED DUTIES AND SALARIES, ESTABLISHING THE SALARY OF THE ASSISTANT CHIEF ENGINEER OF THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Cambridge, as follows: —

Section 30 of Chapter 28 of the Revised Ordinances of 1892 as amended to November 8, 1899, is hereby further amended by inserting under the line "Chief Engineer of the Fire Department" the following, viz.: —

Assistant Chief Engineer of the Fire Department, $1,400.00. [*Approved March* 13, 1900.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED FIRE.

Be it ordained by the City Council of the City of Cambridge, as follows: —

Chapter 11 of the revised ordinances of 1892, as amended to November 8, 1899, is hereby amended in the following sections, viz: —

In section one in the third line by inserting after the words "chief engineer" the words "and assistant chief engineer." Also the third line by striking out the words "two engineers who shall be styled call district chiefs."

In section two, by inserting after the words "chief engineer" wherever they occur, the words "assistant chief engineer." Also by striking out the following words where they occur: — in first line, "call district chiefs"; in the seventh and eighth lines, "any call district chief"; in the ninth and tenth lines, "and the call district chiefs."

In section three, by inserting after the word "chief" in the first line the words "and assistant chief", also in the fourth line after the word "engineer" the words "or assistant chief engineer." Also by striking out the following words where they occur, viz.: — first line "and the call district chiefs", fourth line "or call district chiefs."

In section four, by inserting after the words "chief engineer" in the first line the words "and assistant chief engineer." Also by striking out

all after the word "occupation" in the second line, viz.: — "The call district chiefs shall report their absences from fires in their respective districts, with the reasons therefor, to the chief engineer, who shall keep a record thereof, and of his own absences from fires. They shall also report to him whenever they intend to leave the city."

In section six, by inserting after the words "chief engineer" in the first line the words "and in his absence, the assistant chief engineer."

In section seven, by inserting after the words "chief engineer" in the first line the words "and of the assistant chief engineer." Also by striking out the words "a call district chief" and inserting in place thereof the words "an officer"; in second line by striking out the word "him" and inserting the words "the chief"; in the last two lines by striking out the words "except that each call district chief shall have full control within his district during a fire."

In section fourteen, by inserting after the words "chief engineer" in the seventh line the words "or assistant chief engineer." In the ninth line, by inserting before the words "call district chief" the words "and assistant chief engineer." Also by striking out in the seventh line the words "or any call district chief"; in the eighth and ninth lines by striking out the words "and the call district chiefs"; also by striking out the word "each" in the ninth line.

In section sixteen, by inserting after the words "chief engineer" in the fourth line the words "or assistant chief." Also by striking out the words "or call district chiefs in charge." Also in the fifth line by striking out the word "the" and inserting the word "their"; and in the fifth line by striking out the words "of all the call district chiefs."

In section eighteen, by inserting after the words "chief engineer" in the second line the words "or assistant chief engineer." Also by striking out the words "or call district chiefs."

In section nineteen, in the fourth line, after the words "chief engineer" the words "or the assistant chief engineer." Also by striking out the words "or the call district chief in charge."

In section twenty-six, by inserting in the first line after the words "chief engineer" the words "and assistant chief engineer." Also by striking out the words "and call district chiefs."

As amended these sections will read as follows: —

Section 1. The fire department shall be under the charge of the chief engineer. The department shall consist of a chief engineer and assistant chief engineer, and as many enginemen, assistant enginemen, hosemen, and hook and laddermen, to be divided into companies, as the number of engines and other fire apparatus belonging to the city shall require.

SECT. 2. The chief engineer, assistant chief engineer and all officers and members of the fire department shall hold their respective offices and places until they are removed, or their offices or places are otherwise vacated. The mayor, for cause assigned by him, and after due hearing by him may, with the approval of the majority of the board of aldermen, at any time remove from office or place, the chief engineer, assistant chief engineer, any officer and any member of the department. In the case of a vacancy in the offices of the chief engineer, or assistant chief engineer, such vacancy shall, within thirty days after it is created, be filled by appointment by the mayor, with the approval of the board of aldermen.

SECT. 3. The chief and assistant chief, on their appointment, shall each receive a warrant, in the words following: —"This certifies that ——— is appointed chief engineer or assistant chief engineer of the fire department of the city of Cambridge, and is entitled to all the immunities, and invested with all the powers belonging to said office. Given under my hand, this —— day of —— A. D., ——, ——— Mayor, ——— City Clerk."

SECT. 4. The chief engineer and assistant chief engineer shall engage in no other business or occupation. There shall be appointed one more driver than those required for the existing engine and hook and ladder companies. The chief engineer may designate one of the drivers in the fire department to act as driver of his wagon. Such person shall be constantly employed, and shall at all times be in or about the engine house except when on duty elsewhere, unavoidably absent, or excused from duty by the chief engineer.

SECT. 6. The chief engineer, and in his absence the assistant chief engineer, shall have the sole command at fires over all persons, whether members of the fire department or not. He shall direct all proper measures for extinguishing fires, protecting property, preserving order, and enforcing the laws, ordinances and regulations respecting fires; and shall examine into the condition of the fire engines and all other fire apparatus, and of the fire-engine houses and other houses belonging to the city and used for the department and by the companies thereto attached, as often as once a week, and whenever directed so to do by the mayor. He shall certify all bills, and submit the same for inspection monthly to the joint standing committee on the fire department. He shall report to the city council, annually, in the month of December, a statement of the receipts and expenditures of his department, the condition of the fire engines and all other fire apparatus, a schedule of the property in his charge, the names of the officers and members, and all other facts in relation to the department. Whenever the fire engines or other fire apparatus require repairs, he shall cause the same to be made, under the

direction of the mayor, and, as far as practicable, shall examine into the location and condition of fire apparatus belonging to corporations or private individuals within the limits of the city. He shall require the permanent men, when not otherwise engaged, to perform such other duties and do such other work as, in his judgment, may be deemed proper. He shall also receive and transmit to the city council all returns of officers, members, and fire apparatus, made by the respective companies as hereinafter prescribed, and all other communications relating to the affairs of the fire department; shall keep fair and exact rolls of the respective companies, specifying the time of admission and discharge and the age of each member, and shall report annually or oftener if directed, all accidents by fire which may happen within the city, with the cause thereof, the number and description of the buildings destroyed or injured, and the amount of loss and insurance on the same, together with the names of the owners or occupants.

SECT. 7. In case of the absence of the chief engineer and the assistant chief engineer, an officer designated by the chief shall execute the duties of his office with full power.

SECT. 14. Whenever any vacancy occurs in any fire-engine, hose or hook and ladder company, the vacancy shall be filled by appointment by the mayor with the approval of the board of aldermen. The members of such companies shall continue in service until removed by the mayor and aldermen, or until their positions are otherwise vacated, provided, however, that the chief engineer or the assistant chief engineer, may suspend any member of a company for such cause as he may deem sufficient, and the assistant chief engineer shall immediately report any case of suspension by him to the chief engineer, and the chief engineer shall, as soon as possible, report any case of suspension to the mayor.

SECT. 16. The officers and members of the several companies, whenever a fire breaks out in the city, shall repair forthwith to their respective fire-engines, hose and hook and ladder carriages, and obey the directions of the chief or the assistant chief, and in their absence, the directions of their respective captains.

SECT. 18. In all cases of transfer, or suspension of the members of the fire department by the chief engineer or the assistant chief engineer, the name of the person transferred or suspended, with a statement of the reasons therefor, shall be entered by the chief engineer on his records, and a copy of the same shall be transmitted at once to the mayor.

SECT. 19. The captain of each steam fire-engine and hook and ladder company and the enginemen of each chemical company, immediately on his arrival at any fire, shall report to the chief engineer or the assistant chief engineer and shall remain by his company and the apparatus

of which he has charge, during the fire, preserve order, direct their operations, and protect them from being interrupted in the discharge of their duty.

SECT. 26. The chief engineer and assistant chief engineer shall thoroughly examine into all places where shavings and other combustible material are deposited or collected and cause the same to be removed by and at the expense of the owners or other occupants of any such places, whenever the security of the city against fire requires it. [*Approved March* 13, 1900.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE IN RELATION TO DUTIES AND SALARIES.

Be it ordained by the City Council of the City of Cambridge, as follows :—

Section 30, of Chapter 28, of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby amended in the line relating to the salary of the Chief Engineer of the Fire Department, by striking out the figures $1800.00 at the end of said line, and inserting in place thereof the figures $2000.00, the same to take effect December 1, 1899. [*Approved March* 26, 1900.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE IN RELATION TO JUNK, OLD METALS AND SECOND HAND ARTICLES.

Be it ordained by the City Council of the City of Cambridge as follows :—

Chapter 42 of the Revised Ordinances of 1892, as amended November 8, 1899, is hereby amended as follows, viz. :—

In Section 1 by inserting in the third line after the word "purchase," the word "storage." Also

In Section 3, by inserting in the second line after the word "purchase," the word "storage."

As amended these sections will read as follows —

SECTION 1. No person, corporation, member of a co-partnership or firm shall be a dealer in or keeper of a shop for the purchase, storage, sale or barter of junk, old metals or second hand articles, or collect or be a dealer in rags in this City unless duly licensed therefor by the Board of Aldermen, and unless such person, corporation, co-partnership or firm complies with all lawful ordinances and laws now and hereafter enacted and passed in reference and applicable to junk, old metals and second hand articles.

SECT. 3. Every such dealer in or keeper of a shop for the purchase, storage, sale or barter of junk, old metals or second hand articles, shall keep a book in which shall be legibly written in the English language at

the time of every purchase of any such article, a description thereof, the name, age and residence, giving street and number, when possible, of the person from whom, and the day and hour when such purchase was made. No entry in such a book shall be changed, erased, obliterated or defaced. Such book, any such shop and all articles of merchandise therein shall at all times be open to the inspection of the Mayor and Aldermen, or either of them, and of any person by them or either of them respectively authorized in writing to make such inspection upon exhibiting such written authority to such dealer or keeper. [*Approved April* 4, 1900.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED STREET.

Be it ordained by the City Council of the City of Cambridge, as follows: —

Chapter 25 of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby amended as follows, viz.: —

In Section 28, in the third line, by inserting after the words "house offal," the words "waste paper and other light material;" also in the same section by inserting after the work "travellers" at the end of the first sentence, the following: —

"Whoever desires the removal of waste paper and other light material shall cause the same to be put in suitable receptacles, and separate from the ashes and other house dirt, and set upon the sidewalk as provided in the case of ashes and other house dirt, and the same shall be removed under the direction of the Superintendent of Streets. No owner or occupant of land shall permit waste paper or light material to escape upon the highway of the City."

As amended this section will read as follows: —

Sect. 28. Whoever desires the removal of ashes accumulated from the burning of materials for heating or domestic purposes only, and other house dirt, not including house offal, waste paper and other light material, shall cause the same to be put in suitable boxes or barrels and set upon the sidewalk adjoining his premises; and the Superintendent of Streets shall cause such removal to be made at least once in each week, on stated days for different portions of the City; but such boxes or barrels shall not be placed upon any sidewalk so as unnecessarily to prevent the convenient use thereof by travellers. Whoever desires the removal of waste paper and other light material shall cause the same to be put in suitable receptacles and separate from the ashes and other house dirt, and set upon the sidewalk as provided in the case of ashes and other house dirt, and the same shall be removed by the Superintendent of Streets. No owner or occupant of land shall permit waste paper or light material to escape upon the highways of the City. Wherever there

is a convenient driveway into a yard connected with any dwelling house the Superintendent of Streets may, at his convenience and upon reasonable notice, cause the City teams to be driven into such yard and to remove therefrom the ashes and rubbish before mentioned that may be accumulated therein, at the times hereinbefore specified.

Any person having, or leaving after dark any ashes, rubbish or other refuse on any street shall cause a lighted lantern to be kept thereon during the night. [*Approved April* 4, 1900.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED DUTIES AND SALARIES RELATING TO THE SALARY OF THE CLERK OF THE COMMON COUNCIL.

Be it ordained by the City Council of the City of Cambridge, as follows: —

Section 30 of Chapter 28 of the Revised Ordinances of 1892, as amended November 8, 1899, is hereby amended by striking out the figures "$300.00" set against the line "Clerk of the Common Council" and inserting in place thereof the figures "$500.00."

As amended the line will read: — Clerk of the Common Council, $500.00.

This ordinance shall take effect as of the first day of January, A.D. 1900. [*Approved April* 11, 1900.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED WORKHOUSE.

Be it ordained by the City Council of the City of Cambridge, as follows: —

Section 2, of Chapter 38, of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby amended by striking out the word "Almshouse" and inserting in place thereof the words "Cambridge City Home."

As amended the section will read as follows: —

Sect. 2. The present Cambridge City Home is hereby constituted and declared the workhouse of the City, as set forth in the first section of this chapter. [*Approved May* 9, 1900.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE IN RELATION TO JUNK, OLD METALS, SECOND HAND ARTICLES AND RAGS.

Be it ordained by the City Council of the City of Cambridge, as follows: —

Chapter 42 of the Revised Ordinances of 1892, as amended to November 8, 1899, and further amended, is hereby amended by striking out Sections 1, 2, 3, 5, 6, 7, 8 and 10 and inserting in place thereof the following, to wit: —

Section 1. No person, corporation, member of a co-partnership or firm shall be a dealer in or keeper of a shop for the purchase, storage,

sale, or barter of junk, old metals, or second hand articles, or collect or be a dealer in rags in this City unless duly licensed therefor by the Board of Aldermen, and unless such person, corporation, co-partnership, or firm complies with all lawful ordinances and laws now and hereafter enacted and passed with reference and applicable to junk, old metals, second hand articles and rags.

Sect. 2. Each license issued to such dealers in junk, old metals, and second-hand articles, and collector and dealer in rags, shall set forth the name of the party license, the nature of the business, and the building, place or vehicle in which it is to be carried on, and shall continue in force until the first day of May, next ensuing, unless sooner revoked. The place of business shall not be changed during the continuance of the license except by the special consent of the Board of Aldermen. The fee for keepers of shops for the purchase, storage, sale or barter of junk, old metals, second hand articles or rags, shall be two dollars for each license, and the fee for collectors of the aforesaid articles shall be ten dollars for each license. No such license shall be transferable.

Sect. 3. Every such keeper of a shop for the purchase, storage, sale or barter of junk, old metals, or second hand articles shall keep a book in which shall be legibly written in the English language at the time of every purchase of any such article a description thereof, the name, age and residence, giving street and number, when possible, of the person from whom and the day and hour when such purchase was made. No entry in such book shall be changed, erased, obliterated or defaced. Such book, any such shop and all articles of merchandise therein shall be open at all times to the examination of the Mayor, Aldermen or any person authorized by either of them to make such examination.

Sect. 5. No keeper of such shop shall, directly or indirectly, either purchase or receive by way of barter or exchange any junk, rags, old metals or second hand articles, of a minor or apprentice, knowing or having reason to believe him to be such.

Sect. 6. No article purchased or received by any keeper of such shop shall be sold until a period of at least one week shall elapse from the date of its purchase or receipt.

Sect. 7. No keeper of any such shop shall have his shop open for the transaction of business, nor shall he purchase or sell or barter any junk, old metals, rags or second hand articles, except between sunrise and ten o'clock in the evening of any week day.

Sect. 8. Every vehicle used in the collection of junk, old metals, rags or second hand articles shall have the name of the owner and the number of his license placed upon the outside of each side of his vehicle in plain, legible letters and figures of not less than one and one-half

inches in height, so that they may be distinctly seen. The contents of such vehicle shall be subject at all times to the examination of the Mayor, Aldermen or any person authorized by either of them to make such examination.

SECT. 10. Whoever, not being so licensed, keeps such shop or is such collector or dealer, or being licensed keeps such shop or is such dealer in any other place or manner than that designated in the license, or after notice to him of the revocation of his license, shall forfeit twenty dollars for each offence; and whoever violates any provision of this ordinance or any rule, regulation or restriction contained in his license, shall forfeit a sum not exceeding twenty dollars for each offence. [*Approved May* 10, 1900.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED STREETS.

Be it ordained by the City Council of the City of Cambridge, as follows: —

Section 28, of Chapter 25, of the Revised Ordinances of 1892, as amended to November 8, 1899, and further amended by an ordinance approved April 4, 1900, is hereby further amended by striking out the words "upon the sidewalk" wherever they may occur, and inserting in place thereof the words "in an easily accessible place in the yard;" also by inserting after the word "premises" in the fifth line the words "or if there is no yard to the premises, then such boxes or barrels shall be placed upon the side-walk, only on the morning of the day of collection;" also by striking out the words "any person having, or leaving after dark any ashes, rubbish or other refuse on any street shall cause a lighted lantern to be kept thereon during the night."

As amended the section will read as follows: —

SECT. 28. Whoever desires the removal of ashes accumulated from the burning of materials for heating or domestic purposes only, and other waste house dirt, not including house offal, waste paper and other light material, shall cause the same to be put in suitable boxes or barrels and set in an easily accessible place in the yard adjoining the premises, or if there is no yard to the premises, then such boxes or barrels shall be placed upon the sidewalk only on the morning of the day of collection, and the Superintendent of Streets shall cause such removal to be made at least once in each week, on stated days for different portions of the City; but such boxes or barrels shall not be placed upon any sidewalk so as unnecessarily to prevent the convenient use thereof by travellers. Whoever desires the removal of waste paper and other light material shall cause the same to be put in suitable receptacles and separate from the ashes and other house dirt, and set as provided in the case of ashes and other

house dirt, and the same shall be removed by the Superintendent of Streets. No owner or occupant of land shall permit waste paper or light material to escape upon the highways of the City. Wherever there is a convenient driveway into a yard connected with any dwelling house the Superintendent of Streets may, at his convenience and upon reasonable notice, cause the City teams to be driven into such yard and to remove therefrom the ashes and rubbish before mentioned that may be accumulated therein, at the times herein before specified. [*Approved June* 26, 1900.

AN ORDINANCE IN RELATION TO THE SINKING FUND DEPARTMENT.

Be it ordained by the City Council of the City of Cambridge, as follows:—

Section 1. The Sinking Fund Department shall be under the charge of the Board of Sinking Fund Commissioners as now constituted, and shall consist of six members. No member of the City Council shall be a member of this Board.

Sect. 2. Said Board shall have the custody, care, control and management of all funds created for the payment or redemption of the City debt, including the fund for the payment of the principal and interest of the Cambridge Water Loan.

Sect. 3. The Board shall, at the close of each financial year, certify to the City Auditor the amounts required to be raised by taxation for the several funds, which shall be put into the yearly appropriation the next succeeding year.

Sect. 4. For sinking funds to redeem at maturity such several authorized loans of the City, there shall be annually appropriated and raised by taxation, on account of loans made for ten years, a sum not less than eight and one-half per cent thereof; on account of loans made for twenty years, a sum not less than three and one-half per cent thereof; and on account of outstanding loans made for thirty years, a sum not less than two per cent thereof; and on account that may hereafter be made for forty years, a sum not less than one and one-eighth per cent thereof; and all amounts so raised by taxation shall annually, on or before the thirtieth day of November, be paid by the City Treasurer to such Board. And whenever any payment is so made before the thirtieth day of November, interest shall be paid thereon, by the Commissioners of the Sinking Funds, from the time of said payment until the thirtieth day of November, at such rates as the Committee on Finance shall from time to time determine.

Sect. 5. The Board shall furnish to the City Treasurer from the sinking funds a sum sufficient to meet any City debt at the time of its maturity.

Sect. 6. This ordinance, so far as its provisions are the same in effect as those of previously existing ordinances, shall be construed as a

continuation of these ordinances. This ordinance shall not affect any act done, any right accruing, or any term of office of the existing Board of Sinking Fund Commissioners appointed under the provisions of Chapter 23 of the Revised Ordinances of 1892, or any suit, prosecution or proceeding pending.

SECT. 7. Except as otherwise provided in Section 6 of this Ordinance, Chapter 23 of the Revised Ordinances of 1892, all ordinances in amendment thereof and supplementary thereto, and all other ordinances and provisions of ordinances inconsistent with the provisions of this ordinance, are hereby repealed. [*Approved June* 26, 1900.

AN ORDINANCE IN RELATION TO THE REVISED ORDINANCES OF 1892 OF THE CITY OF CAMBRIDGE AMENDED TO NOVEMBER 8, 1899.

Be it ordained by the City Council of the City of Cambridge, as follows:—

SECTION 1. The Revised Ordinances of 1892 of the City of Cambridge, as amended to November 8, 1899, published by order of the City Council in the year 1899, with the exception of Section 4 of Chapter 1, of said Revised Ordinances of 1892, hereinafter amended as provided by Section 2, of this Ordinance, with all other Ordinances passed since November 8, 1899, in addition and supplementary to said Revised Ordinances of 1892, are hereby passed and enacted in their entirety, as and for the Ordinances of the City of Cambridge.

SECT. 2. Section 4, of Chapter 1, of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby amended by inserting after the figures 1892, in the second line thereof, the words "of the City of Cambridge as amended to November 8, 1899," so that the first two lines of said Section 4, including the words within the quotation marks, shall read as follows: —

This Ordinance shall be known as the "Revised Ordinances of 1892 of the City of Cambridge, as amended to November 8, 1899." [*Approved July* 30, 1900.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED, CONSTRUCTION, MAINTENANCE AND INSPECTION OF BUILDINGS.

Be it ordained by the City Council of the City of Cambridge, as follows:—

Chapter 13 of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby further amended as follows: —

In Section 125, in the ninth and tenth lines, by inserting after the word "water-closet" the words "hereafter placed;" by striking out the word "every" and inserting in its place the word "any," and by striking out the words "hereafter erected for or converted to use," and inserting in place thereof the word "used."

In Section 155, in the tenth line, by inserting after the words "cast iron," the words "or galvanized wrought iron," and in the twelfth line by striking out the words "or galvanized wrought iron."

In Section 156, in the eleventh line, by inserting after the word "if" the words "centre of," and in the same line by striking out the word "two" and inserting in place thereof the word "three."

In Section 162, in the second line, by striking out the word "separately" and inserting in place thereof the word suitably;" and in the eighth line by inserting after the word "cleanouts" the words "of same dimensions as the trap and may serve for one or more conductors."

As amended these sections will read as follows: —

Sect. 125. Every dwelling, tenement or lodging house, every schoolhouse and every building where operatives are employed, shall have at least one water-closet or privy, and if more than twenty persons therein live, attend or are employed, there shall be an additional water-closet or privy for every twenty persons or fraction thereof; and in buildings where operatives of both sexes are employed separate accommodations shall be furnished for men and women. Privies or cesspools shall not be allowed where a sewer makes water-closets practicable. Every water-closet hereafter placed in any building used as a tenement house, family hotel or apartment house shall have a window opening to the outer air.

Sect. 155. The waste pipe of each and every sink, basin, bath tub, urinal, water-closet, slop-hopper, and each set of trays and other fixtures shall be furnished with a separate trap, which shall be placed within one foot of the fixtures served, except as hereinafter provided. One trap shall be permitted to serve for one set of wash trays and a sink, or one bath tub and a wash bowl, provided that the distance between the outlets of said fixtures is not greater than two feet, and the distance of the trap is not less than four inches. Traps shall be protected from siphonage or air pressure by special cast iron or galvanized wrought iron pipes of a size not less than the waste pipes they serve placed outside or below the trap. Lead air pipes not less than one and one-half inches may be used only when they are exposed to view. Air pipes for water-closet traps shall be of two-inch bore, if thirty feet or less in length, and of three-inch bore, if more than thirty feet in length. Air pipes shall be run as direct as practicable. Two or more air pipes may be connected together with a drain pipe, but in every case of connection with a drain pipe such connection shall be above the upper fixtures of the building.

Sect. 156. No chimney or hot flue or shaft constructed of sheet iron, brick or cement shall be used as a ventilator for a trap or drain pipe. Vent pipes shall be constructed of the same material, and in accordance with the provisions of the ordinance governing the construction of drain pipes, and no vent pipes shall be constructed or placed in

such manner that it may become trapped or filled by water from condensation or otherwise. Bow vents shall be constructed to the satisfaction of the Superintendent. The continuation of a soil pipe stack past an upper water-closet or any single isolated fixture shall be deemed to be trap ventilation if centre of said fixture is within three feet of ventilation pipe stack.

Sect. 162. Each drain water leader connected with soil or drain pipes, or a sewer, shall be suitably trapped, and every portion thereof within a building and every portion which passes through the wall and for a distance therefrom of at least one foot, shall be constructed of the same material and in the same manner as other drain pipes. They shall in no event be used to drain other than rain water. Leader traps shall be provided with heavy brass clean-outs, of same dimensions as the trap, and may serve for one or more conductors. The main soil pipe stack may be used as a rain-water leader, provided it has a copper collar with a brass nipple soldered on and caulked to the iron pipe or fittings with oakum and moulten lead, provided the ventilation pipes are carried independently through the roof and increased to three inches at this point. [*Approved December* 24, 1900.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED FIRE.

Be it ordained by the City Council of the City of Cambridge, as follows : —

Section 5, of Chapter 11, of the Revised Ordinances of 1892, as amended to November 8, 1899, relative to pensions for firemen, is hereby amended as follows : —

After the words "Chief Engineer" in the first line insert the words "and Assistant Chief."

As amended the section will read as follows : —

Sect. 5. The pension granted to the Chief Engineer and Assistant Chief of the fire department shall not exceed one-half the amount of his salary. The pension granted to any other member of the department shall not exceed forty-three dollars per month in any case. [*Approved December* 28, 1900.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE ENTITLED DUTIES AND SALARIES.

Be it ordained by the City Council of the City of Cambridge, as follows : —

Chapter 28 of the Revised Ordinances of 1892, as amended to November 8, 1899, is further amended, as follows : —

In Section 14, by adding after the word "designate" in the eighth line the following clause : —

"Such proposals shall be publicly opened whenever so ordered by the Mayor."

As amended, the section will read as follows: —

Sect. 14. No proposal shall be received from any person offering to contract for such work, unless the same is enclosed in a sealed envelope or wrapper. Such proposals shall be at once placed in a sealed box in the department calling for the proposals, and the clerk of committees shall hold the only key to such box. All proposals shall be opened, read and recorded in the city hall, at the hour and place designated in the advertisement, in the presence of the Mayor or such person as he may designate. Such proposals shall be publicly opened, whenever so ordered by the Mayor. The contract shall be awarded to the lowest bidder complying with the terms; provided, however, if any such proposals shall be offered by persons who, in the judgment of the board, or officer issuing the advertisement, shall be incompetent to perform their contracts in a workmanlike manner, or irresponsible in respect to their means of faithfully executing the same, such proposals may be rejected, notwithstanding the same be at a lower rate than other proposals offered for the same work, and the next higher bidder shall be substituted; and provided, also, in all cases, that the board or officer may reject all bids and issue new advertisements. All bids shall be preserved by the board or officer issuing the advertisement on the records of its department, and shall be open to public inspection after the contract has been awarded, and accepted by the bidder. [*Approved December* 28, 1900.

AN ORDINANCE IN AMENDMENT OF AN ORDINANCE IN RELATION TO JUNK, OLD METALS, SECOND HAND ARTICLES AND RAGS.

Be it ordained by the City Council of the City of Cambridge, as follows: —

Section 1. No person, corporation, member of a co-partnership or firm, shall solicit for, be a collector of or dealer in junk, old metals, second hand articles or rags, or keeper of a shop for the purchase, storage, sale, or barter of junk, old metals, second hand articles or rags in this City unless duly licensed therefor by the Board of Aldermen, and unless such person, corporation, co-partnership or firm complies with all ordinances and laws now and hereafter enacted and passed with reference and applicable to junk, old metals, second hand articles and rags.

Sect. 2. Each license issued to such solicitor, collector, and dealer in junk, old metals, second hand articles and rags and keeper of a shop for the purchase, storage, sale or barter of the same, shall set forth the name of the party licensed, the nature of the business and the building, place or vehicle in which it is to be carried on, and shall continue in force until the first day of May next ensuing unless sooner revoked. The place of business shall not be changed during the continuance of the license

except by the special consent of the Board of Aldermen. The fee for keepers of shops for the purchase, storage, sale or barter of junk, old metals, second hand articles or rags, shall be two dollars for each license, and the fee for such solicitors, collectors and dealers of the aforesaid articles, other than such keeper of shops, shall be ten dollars for each license. No such license shall be transferable.

SECT. 3. Every keeper of a shop for the purchase, storage, sale or barter of junk, old metals, second hand articles or rags shall keep a book in which shall be legibly written in the English language at the time of purchase of any article, a description thereof, the name, age and residence, giving street and number, when possible, of the person from whom and the day and hour when such purchase was made. No entry in such book shall be changed, erased, obliterated or defaced. Such book, any such shop and all articles of merchandise therein shall be open at all times to the examination of the Mayor, Aldermen, or any person authorized by either of them to make such examination.

SECT. 4. Every such keeper of a shop shall put in some suitable and conspicuous place on his shop a sign having his name and occupation legibly inscribed thereon in large letters, so that the same may be distinctly seen.

SECT. 5. No keeper of such shop, and no solicitor, collector or dealer shall, directly or indirectly, either purchase or receive by way of barter or exchange, any junk, old metals, second hand articles or rags of a minor or apprentice knowing or having reason to believe him to be such.

SECT. 6. No article purchased or received by any keeper of such shop shall be sold until a period of at least one week shall elapse from the date of its purchase or receipt.

SECT. 7. No keeper of any shop shall have his shop open for the transaction of business, nor shall he purchase, sell, or barter any junk, old metals, second hand articles, or rags, except between sunrise and ten o'clock in the evening of any week day.

SECT. 8. Every vehicle used in the collection of junk, old metals, second hand articles or rags shall have the name of the owner and the number of his license placed upon the outside of each side of his vehicle in plain, legible letters and figures of not less than one and one-half inches in height, so that they may be distinctly seen. The contents of such vehicles shall be subject at all times to the examination of the Mayor, Aldermen, or any person authorized by either of them to make such examination.

SECT. 9. A violation of any provision of this or any subsequent ordinance that may be passed in the premises shall of itself be sufficient cause and reason to revoke any such license. The Board of Aldermen

reserve the right at any time for any other cause sufficient to them to revoke any such license.

Sect. 10. Whoever, not being so licensed, keeps such shop or is such solicitor, collector, or dealer, or being licensed keeps such shop or is such solicitor, collector or dealer, in any other place or manner than that designated in the license, or after notice to him of the revocation of his license, shall forfeit twenty dollars for each offence; and whoever violates any rule, regulation or restriction contained in his license, shall forfeit a sum not exceeding twenty dollars for each offence.

Sect. 11. Chapter 42 of the Revised Ordinances of the City of Cambridge, as amended to November 8, 1899, and ordinances in amendment of the same approved respectively April 4, 1900, and May 10, 1900, are hereby repealed.

Sect. 12. This ordinance shall not affect any act done, any right accrued, any suit, prosecution, or proceeding pending at the time when it takes effect, nor shall the repeal of the ordinance mentioned in Section 11 of this ordinance have the effect of reviving an ordinance theretofore repealed or superseded, or the effect of preventing any punishment or penalty incurred before the repeal took effect, or of interfering with any suit, prosecution or proceeding pending at the time of the repeal, for an offence committed under the ordinance repealed. [*Approved December* 28, 1900.

AN ORDINANCE IN RELATION TO THE SURVEY DEPARTMENT OF THE CITY OF CAMBRIDGE.

Be it ordained by the City Council of the City of Cambridge, as follows: —

Section 1. The survey department shall be under the charge of the Board of Survey, created under the provisions of chapter four hundred and five of the legislative acts of the year nineteen hundred. No person shall be a member of said Board who is at the same time a member of the City Council. The members of the Board shall receive no compensation for their services.

Sect. 2. The Board may choose a clerk and may make such rules and regulations for its own government, and in relation to all its officers and employees, as may be deemed expedient.

Sect. 3. The Board, so constituted and organized, shall have and exercise all the powers given to it and to the City Council by the Legislature, by the four hundred and fifth chapter of the acts of the year nineteen hundred, and by any acts in addition thereto which may be hereafter enacted, so far as the same can be legally delegated by the City, subject to all the duties, liabilities and restrictions in said last-named chapter contained.

SECT. 4. The Board, on or before the fifteenth day of December in each year, shall present to the City Council a report containing a statement of all its acts, doings and proceedings, together with any information or suggestions which it may deem important, and an estimate of the amount required of the City for the conduct of the department for the year ensuing.

SECT. 5. No member of the Board, and no person appointed to any office or employed by virtue of this chapter or of the acts of the Legislature mentioned in the third section of this chapter shall be interested, directly or indirectly, in any contract, bargain, sale or agreement, in relation to lands, or any matter or thing connected therewith, wherein the City is interested; and any and all contracts, bargains, sales or agreements, made in violation of this section, shall be void as to the City.

SECT. 6. The board may require the city engineer, either by himself or by his assistants, to perform all work which properly comes within the province and under the direction of a civil engineer, including the making of examinations and surveys, and the preparation of statements, plans, profiles, estimates and descriptions. [*Approved Jan.* 5, 1901.

MAYORS OF THE CITY OF CAMBRIDGE

(From 1846 to 1901 Inclusive)

James D. Green	From	May,	1846,	to April,	1848
Sidney Willard	"	April,	1848,	to April,	1851
George Stevens	"	April,	1851,	to April,	1853
James D. Green	"	April,	1853,	to April,	1854
*Abraham Edwards	"	April,	1854,	to January,	1855
Zebina L. Raymond	"	January,	1855,	to January,	1856
John Sargent	"	January,	1856,	to January,	1860
†James D. Green	"	January,	1860,	to July 24,	1861
‡Charles Theo. Russell	"	July 31,	1861,	to January,	1863
George C. Richardson	"	January,	1863,	to January,	1864
Zebina L. Raymond	"	January,	1864,	to January,	1865
J. Warren Merrill	"	January,	1865,	to January,	1867
Ezra Parmenter	"	January,	1867,	to January,	1868
Charles H. Saunders	"	January,	1868,	to January,	1870
Hamlin R. Harding	"	January,	1870,	to January,	1872
Henry O. Houghton	"	January,	1872,	to January,	1873
Isaac Bradford	"	January,	1873,	to January,	1877
Frank A. Allen	"	January,	1877,	to January,	1878
Samuel L. Montague	"	January,	1878,	to January,	1880
James M. W. Hall	"	January,	1880,	to January,	1881
James A. Fox	"	January,	1881,	to January,	1885
William E. Russell	"	January,	1885,	to January,	1889
Henry H. Gilmore	"	January,	1889,	to January,	1891
Alpheus B. Alger	"	January,	1891,	to January,	1893
William A. Bancroft	"	January,	1893,	to January,	1897
Alvin F. Sortwell	"	January,	1897,	to January,	1899
Edgar R. Champlin	"	January,	1899,	to January,	1901
David T. Dickinson	"	January,	1901.	Now in office.	

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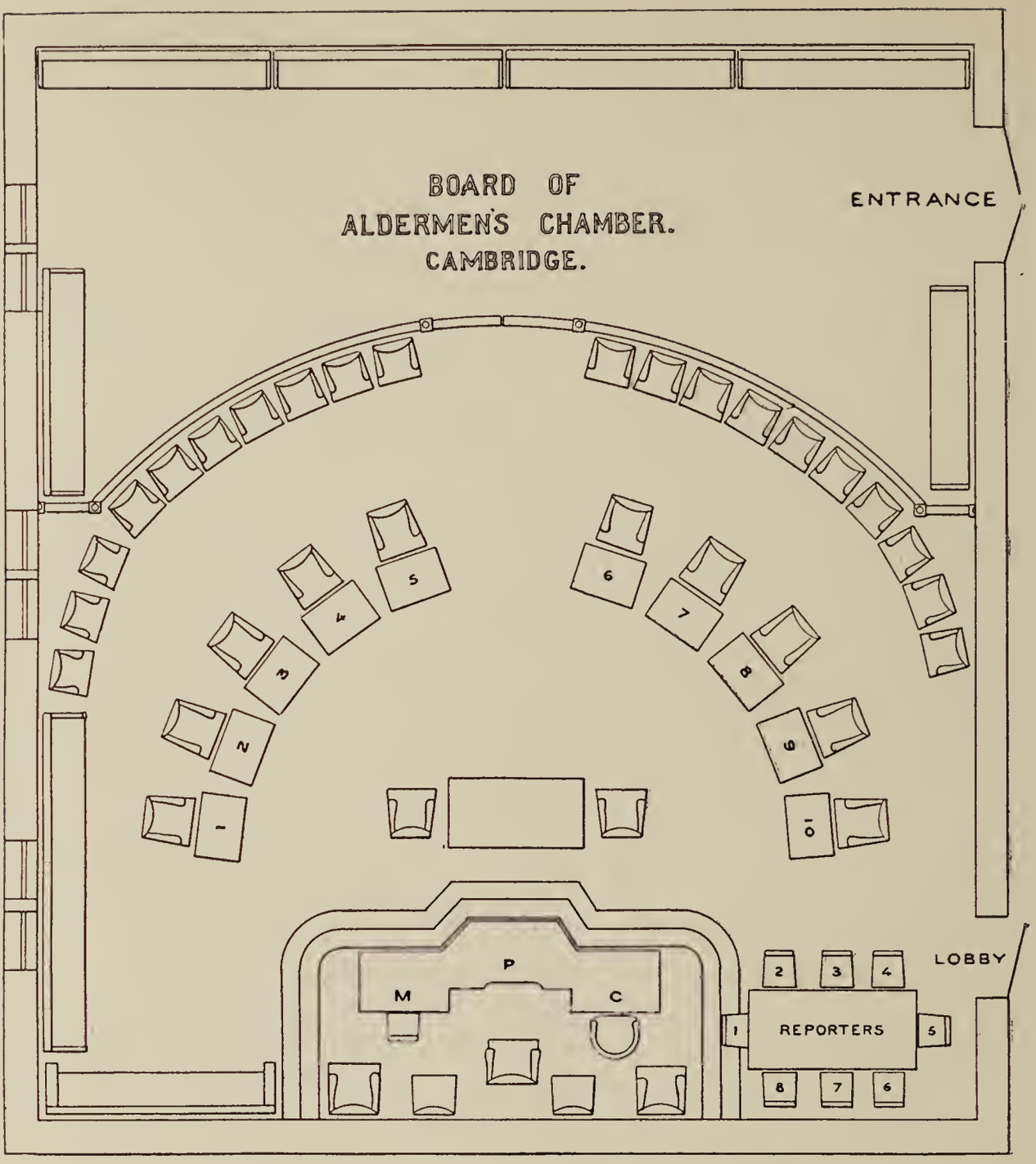
* Municipal year changed. † Resigned. ‡ First elected by the City Council.

PRESIDENTS OF THE BOARD OF ALDERMEN

1888 Edward W. Hincks.
1889 John H. Corcoran.
1890 Alvin F. Sortwell.
1891 William A. Bancroft.
1892 William A. Bancroft.
1893 John R. Fairbairn.
1894 John G. Thorogood.
1895 John R. Fairbairn.
1896 John R. Fairbairn.
1897 Russell Bradford.
1898 Russell Bradford.
1899 Walter C. Wardwell.
1900 Walter C. Wardwell.
1901 George E. Saunders.

PRESIDENTS OF THE COMMON COUNCIL

1846 Isaac Livermore.
1847 John Sargent.
1848 John C. Dodge.
1849 Samuel P. Heywood.
1850 Samuel P. Heywood.
1851 John S. Ladd.
1852 John Sargent.
1853 John Sargent.
1854 John C. Dodge.
1855 Alanson Bigelow.
1856 Ezra Ripley. Resigned January 31.
1856 George S. Saunders. Elected January 31.
1857 George S. Saunders.
1858 James C. Fisk.
1859 James C. Fisk.
1860 Hamlin R. Harding.
1861 Hamlin R. Harding.
1862 Jared Shepard. Resigned September 17.
1862 Knowlton S. Chaffee. Elected September 24.
1863 George S. Saunders.
1864 George S. Saunders.
1865 John S. March.
1866 John S. March.
1867 Marshall T. Bigelow.
1868 Knowlton S. Chaffee. Resigned February 4.
1868 Henry W. Muzzey. Elected February 4.
1869 Henry W. Muzzey.
1870 Joseph H. Converse.
1871 Joseph H. Converse.
1872 Alvaro Blodgett.
1873 Alvaro Blodgett. Resigned June 17.
1873 Francis H. Whitman. Elected June 17.
1874 George F. Piper.
1875 George F. Piper.
1876 Frank A. Allen.
1877 Perez G. Porter.
1878 George S. Saunders.
1879 George S. Saunders.
1880 Charles Walker.
1881 Charles Walker.
1882 George H. Howard.
1883 George H. Howard.
1884 George H. Howard.
1885 Cornelius G. H. Bennink.
1886 John H. Corcoran.
1887 John H. Corcoran.
1888 Alvin F. Sortwell.
1889 Edward A. Bingham.
1890 Edward A. Bingham.
1891 Edward C. Wheeler.
1892 Herbert A. Chase.
1893 J. Henry Russell.
1894 Charles M. Conant.
1895 John L. Odiorne.
1896 John L. Odiorne.
1897 Albert S. Apsey.
1898 George E. Saunders.
1899 William F. Brooks.
1900 John D. Merrill.
1901 John D. Merrill.



KEY TO ALDERMAN'S CHAMBER

CITY HALL, CAMBRIDGE

1901

P—George E. Saunders, *President.*

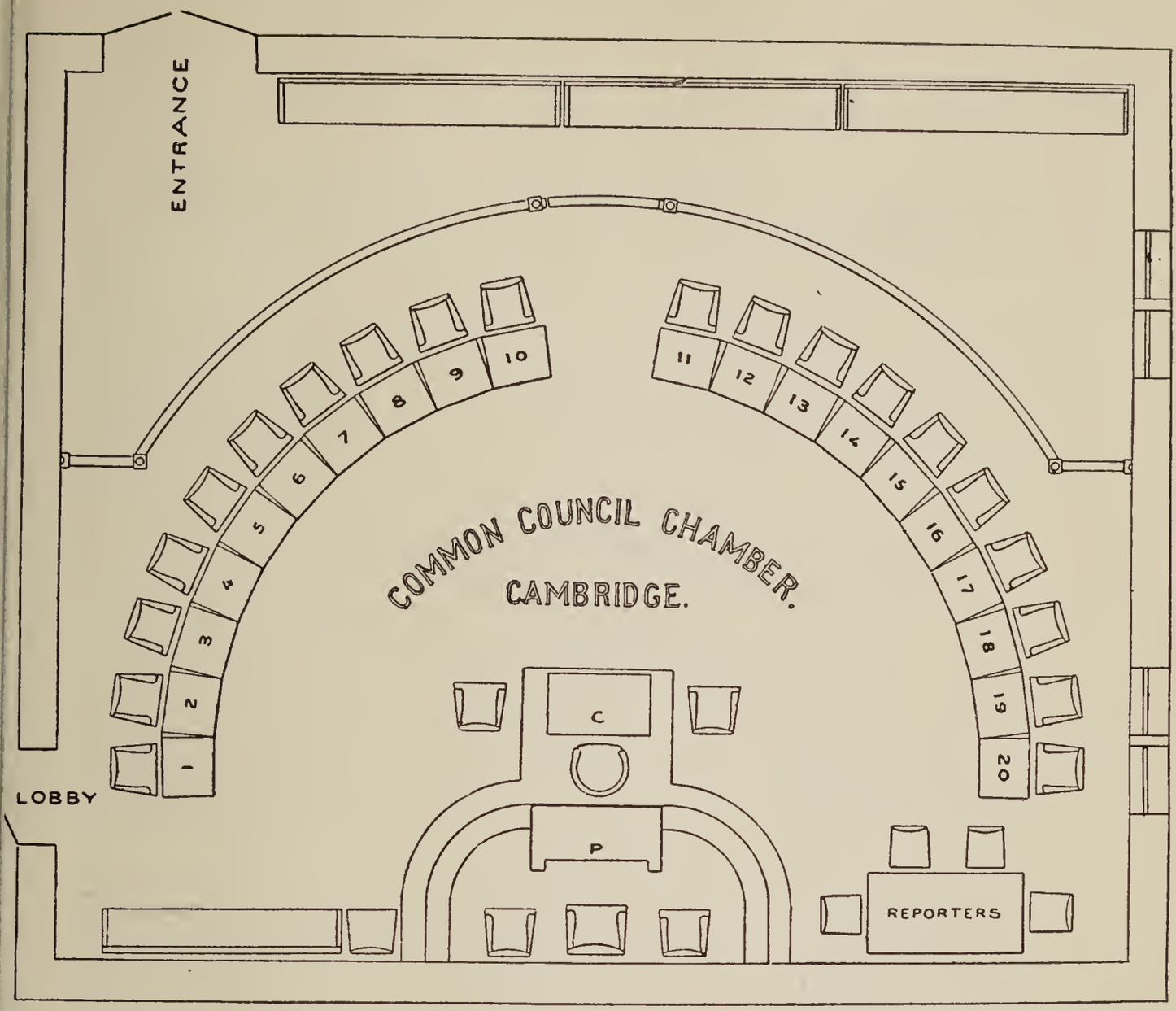
1	Alderman	Good.	6	Alderman	Brooks.
2	"	Bird.	7	"	Carstein.
3	"	Beunke.	8	"	Barrett.
4	"	Hall.	9	"	Davis.
5	"	Long.	10	"	Aylward.

C—Edward J. Brandon, *City Clerk.*

M—Francis L. Pratt, *City Messenger.*

Reporters:

1	John B. Whoriskey, Boston Globe.	5	Edgar L. Bean, Boston Herald.
2	Harry H. Harrison, Cambridge Tribune.	6	Chas. J. P. Lucas, Boston Traveler.
3	J. Lee Robinson, Boston Journal.	7	Walter G. Davis, Cambridge Press.
4	James H. Cox, Cambridge Times.	8	Jas. W. Bean, Cambridge Chronicle.



KEY TO COMMON COUNCIL CHAMBER

CITY HALL, CAMBRIDGE

1901

P—John D. Merrill, *President.*

1	Councilman	Bird.
2	"	Colman.
3	"	Sullivan.
4	"	Dudley.
5	"	Rhoades.
6	"	Cutting.
7	"	Lewis.
8	"	Hart.
9	"	Heaton.
10	"	Bell.
11	Councilman	Barry.
12	"	Shaughnessy.
13	Vacant.	
14	Councilman	Thompson.
15	"	Danskin.
16	"	Clark.
17	"	Sharkey.
18	"	Spalding.
19	"	Lake.
20	"	O'Brien.

C—Edward A. Counihan, *Clerk.*

Frank T. Evans, *Page.*

Reporters:

J. Lee Robinson, { Cambridge Chronicle. / Cambridge Press.

Harry H. Harrison, Cambridge Tribune.

T. A. P. Bordley, Cambridge Times.

GOVERNMENT OF THE CITY OF CAMBRIDGE, 1901

Mayor

HON. DAVID T. DICKINSON, 1740 Massachusetts Avenue.

Board of Aldermen

President.

GEORGE E. SAUNDERS.

Ward One.

WILLIAM F. BROOKS	68 Park Avenue.
GEORGE E. SAUNDERS	5 Concord Avenue.

Ward Two.

JAMES F. AYLWARD	143 Prospect Street.
HERMAN BIRD	12 Bigelow Street.
WILLIAM R. DAVIS	89 Plymouth Street.
ALBERT B. LONG	5 Ellsworth Park.

Ward Three.

JAMES T. BARRETT	8 Parnell Street.

Ward Four.

FRED L. BEUNKE	225 Franklin Street.
TIMOTHY W. GOOD	26 Pleasant Street.

Ward Five.

HANS L. CARSTEIN	45 Cogswell Avenue.
ALBERT H. HALL	16 Gray Street.

Clerk.

EDWARD J. BRANDON.

Messenger.

FRANCIS L. PRATT.

Regular Meetings on Tuesday Evenings at 8 o'clock.

Common Council

President.

JOHN D. MERRILL.

Ward One.

STOUGHTON BELL	164 Brattle Street.
CHARLES H. LAKE	362 Harvard Street.
JOHN D. MERRILL	12 Mt. Auburn Street.
THORNDIKE SPALDING	75 Sparks Street.

Ward Two.

J. EDWARD BARRY	347 Broadway.
WILLIAM W. BIRD	185 Hancock Street.
THOMAS H. HEATON	284 Broadway.
THOMAS J. O'BRIEN	116 Inman Street.
HERBERT A. RHOADES	26 Inman Street.
JOSEPH E. SHARKEY	259 Elm Street.

Ward Three.

JOHN T. HART	72 Fourth Street.
DANIEL B. SHAUGHNESSY, Jr.	276 Cambridge Street.
ALEXANDER J. SULLIVAN	240 Third Street.

Ward Four.

EDWARD E. CLARK	346 Brookline Street.
EDWIN A. CUTTING	419 Putnam Avenue.
JOHN F. DANSKIN	55 River Street.
JOHN D. THOMPSON	30 Howard Street.

Ward Five.

WILLIAM H. COLMAN	169 Rindge Avenue.
HOWLAND DUDLEY	24 Avon Hill Street.
WILLIAM H. LEWIS	226 Upland Road.

Clerk.

EDWARD A. COUNIHAN.

Page.

FRANK T. EVANS.

Regular Meetings on Tuesday Evenings at 8 o'clock.

COMMITTEES OF THE CITY COUNCIL

JOINT STANDING COMMITTEES.

Accounts. Aldermen Beunke and Hall; Councilmen Sharkey, Thompson and Colman.

Assessors' Department. Alderman Bird; Councilmen Shaughnessy and O'Brien.

City Engineering. Aldermen Barrett and Good; Councilmen Hart, Clark and Sharkey.

Cambridge City Home. Aldermen Carstein and Good; Councilmen Sullivan, Heaton and Lake.

Claims. President Saunders and Aldermen Long, Brooks and Beunke; President Merrill, Councilmen Cutting, Bell, Sharkey, Hart, Dudley.

Finance. President Saunders and Aldermen Carstein, Hall and Aylward; President Merrill, Councilmen Rhoades, Spalding, Lewis, Clark and Shaughnessy.

Fire Department. Aldermen Davis and Beunke; Councilmen Spalding, Thompson and Sullivan.

Health. Aldermen Good and Bird; Councilmen Lake, Rhoades and Thompson.

Legislative Matters. President Saunders and Aldermen Bird, Davis and Aylward; President Merrill, Councilmen Spalding, Lewis, Rhoades, Clark and Hart.

Ordinances. Aldermen Aylward and Hall; Councilmen Bird, Bell and Dudley.

Parks. Aldermen Brooks and Davis; Councilmen Spalding, Colman and Cutting.

Printing. Aldermen Beunke and Hall; Councilmen Danskin, O'Brien and Thompson.

Public Instruction. Aldermen Bird and Beunke; Councilmen O'Brien, Sharkey and Dudley.

Public Property. Aldermen Long and Good; Councilmen Bell, Barry and Colman.

Roads and Bridges. Aldermen Brooks and Barrett; Councilmen Bird, Danskin and Lake.

Rules and Orders. Aldermen Carstein and Hall; Councilmen Clark, Bird and Sullivan.

Water Supply. Aldermen Hall and Aylward; Councilmen Barry, Cutting and Heaton.

Wires and Lamps. Aldermen Davis and Barrett; Councilmen Danskin, Bird and O'Brien.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

Bonds. Aldermen Bird, Aylward and Beunke.

Claims. President Saunders and Aldermen Long, Brooks and Beunke.

Elections and Returns. Aldermen Long, Aylward and Hall.

Fire Department. Aldermen Davis, Beunke and Aylward.

Health. Aldermen Good, Bird and Long.

Parks. Aldermen Brooks, Davis and Barrett.

Police. Aldermen Brooks, Long and Aylward.

Licenses. Aldermen Carstein, Bird and Good.

Roads and Bridges. Aldermen Brooks, Barrett and Carstein.

Rules and Orders. Aldermen Carstein, Hall and Long.

Sewers. Aldermen Barrett, Davis and Good.

Soldiers' Aid. Aldermen Carstein, Bird, Brooks, Beunke and Barrett.

Street Railways. Aldermen Davis, Good and Barrett.

STANDING COMMITTEES OF THE COMMON COUNCIL.

Bills in the Second Reading. Councilmen Colman, Sharkey and O'Brien.

Elections and Returns. Councilmen Danskin, Colman and Heaton.

Enrolled Ordinances. Councilmen Dudley, Lake and Shaughnessy.

JOINT SPECIAL COMMITTEES.

Consideration of Matters Referred from last City Council. Aldermen Carstein, Brooks and Long; Councilmen Heaton, Thompson, Sharkey, Sullivan and Dudley.

Publication of Mayor's Inaugural Address. Aldermen Davis and Aylward; Councilmen Spalding, Dudley and Hart.

Recommendations in Mayor's Inaugural Address. Aldermen Brooks and Davis; Councilmen Sullivan, Bird and Heaton.

Municipal Bath House. Aldermen Good, Long and Beunke; Councilmen Bell, Barry, Sullivan, Cutting and Colman.

New Cambridge Bridge. Aldermen Beunke and Bird; Councilmen Thompson, Barry and Hart.

Central Fire Alarm Station. Committee on Fire Department and on Wires and Lamps.

Amendments to City Charter. President Saunders and Aldermen Aylward, Carstein and Hall; President Merrill; Councilmen Lewis, Spalding, Rhoades, Clark and Shaughnessy.

SPECIAL COMMITTEES OF BOARD OF ALDERMEN.

Consideration of Matters referred from the last Board of Aldermen. Aldermen Carstein, Brooks and Long.

Licensing Hawkers and Pedlers. Committees on Police and on Licenses.

MEMBERS OF THE CITY COUNCIL, WITH THE COMMITTEES UPON WHICH THEY HAVE BEEN APPOINTED.

President Saunders. Claims (Joint and of Aldermen), Finance, Legislative Matters, Amendments to City Charter.

Alderman Aylward. Finance, Legislative Matters, Ordinances, Water Supply, Bonds, Elections and Returns, Fire (of Aldermen), Police, Publication of Mayor's Inaugural Address, Amendments to City Charter, Licensing Hawkers and Pedlers.

Alderman Barrett. City Engineering, Roads and Bridges (Joint and of Aldermen), Wires and Lamps, Parks (of Aldermen), Sewers, Soldiers' Aid, Street Railways, Central Fire Alarm Station.

Alderman Beunke. Accounts, Claims (Joint and of Aldermen), Fire (Joint and of Aldermen), Printing, Public Instruction, Bonds, Soldiers' Aid, Municipal Bath House, New Cambridge Bridge, Central Fire Alarm Station.

Alderman Bird. Assessors' Department, Health (Joint and of Aldermen), Legislative Matters, Public Instruction, Bonds, Licenses, Soldiers' Aid, New Cambridge Bridge, Licensing Hawkers and Pedlers.

Alderman Brooks. Claims (Joint and of Aldermen), Parks (Joint and of Aldermen), Roads and Bridges (Joint and of Aldermen), Police, Soldiers' Aid, Consideration of Matters referred from last City Council, Recommendations in Mayor's Inaugural Address, Consideration of Matters referred from last Board of Aldermen, Licensing Hawkers and Pedlers.

Alderman Carstein. Cambridge City Home, Finance, Rules and Orders (Joint and of Aldermen), Licenses, Roads and Bridges (of Aldermen), Soldiers' Aid, Consideration of Matters referred from last City Council, Amendments to City Charter, Consideration of Matters referred from last Board of Aldermen, Licensing Hawkers and Pedlers.

Alderman Davis. Fire (Joint and of Aldermen), Legislative Matters, Parks (Joint and of Aldermen), Wires and Lamps, Sewers, Street Rail-

ways, Publication of Mayor's Inaugural Address, Recommendations in Mayor's Inaugural Address, Central Fire Alarm Station.

Alderman Good. City Engineering, Cambridge City Home, Health (Joint and of Aldermen), Public Property, Licenses, Sewers, Street Railways, Municipal Bath House, Licensing Hawkers and Pedlers.

Alderman Hall. Accounts, Finance, Ordinances, Printing, Rules and Orders (Joint and of Aldermen), Water Supply, Elections and Returns, Amendments to City Charter.

Alderman Long. Claims (Joint and of Aldermen), Public Property, Elections and Returns, Health (of Aldermen), Police, Rules and Orders (of Aldermen), Consideration of Matters referred from last City Council, Municipal Bath House, Consideration of Matters referred from last Board of Aldermen, Licensing Hawkers and Pedlers.

President Merrill. Claims, Finance, Legislative Matters, Amendments to City Charter.

Councilman Barry. Public Property, Water Supply, Municipal Bath House, New Cambridge Bridge.

Councilman Bell. Claims, Ordinances, Public Property, Municipal Bath House.

Councilman Bird. Ordinances, Roads and Bridges, Rules and Orders, Wires and Lamps, Recommendations in Mayor's Inaugural Address, Central Fire Alarm Station.

Councilman Clark. City Engineering, Finance, Legislative Matters, Rules and Orders, Amendments to City Charter.

Councilman Colman. Accounts, Parks, Public Property, Bills in the Second Reading, Elections and Returns, Municipal Bath House.

Councilman Cutting. Claims, Parks, Water Supply, Municipal Bath House.

Councilman Danskin. Printing, Roads and Bridges, Wires and Lamps, Elections and Returns, Central Fire Alarm Station.

Councilman Dudley. Claims, Ordinances, Public Instruction, Enrolled Ordinances, Consideration of Matters referred from last City Council, Publication of Mayor's Inaugural Address.

Councilman Hart. City Engineering, Claims, Legislative Matters, Publication of Mayor's Inaugural Address, New Cambridge Bridge.

Councilman Heaton. Cambridge City Home, Water Supply, Elections and Returns, Consideration of Matters referred from last City Council, Recommendations in Mayor's Inaugural Address.

Councilman Lake. Cambridge City Home, Health, Roads and Bridges, Enrolled Ordinances.

Councilman Lewis. Finance, Legislative Matters, Amendments to City Charter.

Councilman O'Brien. Assessors' Department, Printing, Public Instruction, Wires and Lamps, Bills in the Second Reading, Central Fire Alarm Station.

Councilman Rhoades. Finance, Health, Legislative Matters, Amendments to City Charter.

Councilman Sharkey. Accounts, City Engineering, Claims, Public Instruction, Bills in the Second Reading, Consideration of Matters referred from last City Council.

Councilman Shaughnessy. Assessors' Department, Finance, Enrolled Ordinances, Amendments to City Charter.

Councilman Spalding. Finance, Fire, Legislative Matters, Parks, Publication of Mayor's Inaugural Address, Central Fire Alarm Station, Amendments to City Charter.

Councilman Sullivan. Cambridge City Home, Fire, Rules and Orders, Consideration of Matters referred from last City Council, Recommendations in Mayor's Inaugural Address, Municipal Bath House, Central Fire Alarm Station.

Councilman Thompson. Accounts, Fire, Health, Printing, Consideration of Matters referred from last City Council, New Cambridge Bridge, Central Fire Alarm Station.

DEPARTMENTS AND BOARDS

EXECUTIVE DEPARTMENT.

David T. Dickinson . . . *Mayor.*
Edward A. Counihan . . *Mayor's Clerk.*
Office Hours: 8 A. M. to 3 P. M.
Office, Rooms 17 and 18, City Hall. Telephone 463.

CITY CLERK DEPARTMENT.

Edward J. Brandon . . . *City Clerk.*
Albert M. Pear . . . *Assistant City Clerk.*
Office Hours: 8 A. M. to 3 P. M.
Office, Rooms 8 and 9, City Hall. Telephone 419.

TREASURY DEPARTMENT.

William W. Dallinger, *City Treasurer and Collector of Taxes.*
Office Hours: 8 A. M. to 2 P. M.
Office, Rooms 3 and 4, City Hall. Telephone 602.

AUDITING DEPARTMENT.

Harry T. Upham . . . . *City Auditor.*
Office Hours: 8 A. M. to 2 P. M.
Office, Rooms 1 and 2, City Hall. Telephone 602.

CLERK OF COMMITTEES DEPARTMENT.

John McDuffie . . . . *Clerk of Committees.*
Office Hours: 8 A. M. to 3 P. M.
Office, Room 16, City Hall. Telephone 818.

CITY MESSENGER DEPARTMENT.

Francis L. Pratt . . . . *City Messenger.*
Office Hours: 8 A. M. to 5 P. M.
Office, Room 11, City Hall. Telephone 507.

LAW DEPARTMENT.

GILBERT A. A. PEVEY . . . . *City Solicitor.*

Office Hours (at City Hall): Saturdays, 8 A. M. to 12 M.

Office, Room 17, City Hall. Telephone 463.

Boston Office, 22 Pemberton Square. Telephone 1071 Haymarket.

ENGINEERING DEPARTMENT.

LEWIS M. HASTINGS . . . *City Engineer.*

Theodore L. Pike . . . *Supt. of Sewers.*

Office Hours: 8 A. M. to 5 P. M.

Office, Rooms 30 and 31, City Hall. Telephone 471.

FIRE DEPARTMENT.

THOMAS J. CASEY . . . . *Chief.*

Nathaniel W. Bunker . . *Assistant Chief.*

Office Hours: 9 to 10 A. M.

Office, Room 23, City Hall. Telephone 507.

INSPECTION, ETC., OF BUILDINGS DEPARTMENT.

WILLIAM H. GRAY, *Supt. of Public Buildings and Inspector of Buildings.*

Office Hours: 8 A. M. to 2 P. M.

Office, Room 28, City Hall. Telephone 125.

HEALTH DEPARTMENT — BOARD OF HEALTH.

E. EDWIN SPENCER, M. D. . . *Chairman.*

Term, three years.

William Rodman Peabody . .	Term expires 1902.
Charles Harris	Term expires 1903.
E. Edwin Spencer, M. D. . .	Term expires 1904.

James B. Soper . . . *Clerk.*

Edwin Farnham, M. D. . . . *Medical Inspector.*

Office Hours: 8 A. M. to 4 P. M.

Rooms 25 and 26, City Hall. Telephone 345.

POLICE DEPARTMENT.

LOTHROP J. CLOYES . . . *Chief of Police.*

Office Hours: 8 A. M. to 6 P. M.

Office at Central Square Building. Telephone 423.

STREET DEPARTMENT.

CHARLES A. BROWN . . . *Supt. of Streets.*

Office Hours: 8 A. M. to 4 P. M.

Office, Room 12, City Hall. Telephone 435.

INSPECTION OF MILK AND VINEGAR DEPARTMENT.

PHILIP P. SHARPLES . . . { *Inspector of Milk.* / *Inspector of Vinegar.*

Office Hours: Mondays, Wednesdays and Fridays, 9.30 to 11.30 A. M.

Office, Room 27, City Hall. Telephone 345.

ASSESSORS' DEPARTMENT — BOARD OF ASSESSORS.

Term, three years.

ANDREW J. GREEN . . .	Term expires 1901.
JOSHUA G. GOOCH, *Chairman* .	Term expires 1902.
JOHN M. DAVIS, *Secretary* . .	Term expires 1903.

ASSISTANT ASSESSORS.

Ward 1	Warren Ivers.
Ward 2	George H. Munroe.
Ward 3	Daniel B. Shaughnessy.
Ward 4	Edward A. Barnard.
Ward 5	Henry E. Farrington.

Office Hours: 8 A. M. to 3 P. M.

Office, Rooms 21 and 22, City Hall. Telephone 244.

CITY ELECTRICAL DEPARTMENT.

CHARLES F. HOPEWELL . . . *City Electrician.*

Office Hours: 8 A. M. to 2 P. M.

Office, Room 28, City Hall. Telephone 125.

INSPECTION OF ANIMALS DEPARTMENT.

CHARLES E. HADCOCK, M. D. V. . *Inspector of Animals.*
Residence, 21 Ellery Street. (No office or hours.)

BRIDGE DEPARTMENT.

WILLIAM J. MARVIN, *Bridge Commissoner and Harbor Master.*
Residence, 58 Trowbridge Street. (No office or hours.)

SEALER OF WEIGHTS AND MEASURES DEPARTMENT.

ALBERT F. ROBERTS . . *Sealer of Weights and Measures.*
Office Hours: { Fridays, 8 A. M. to 4 P. M.
Saturdays, 8 A. M. to 12 M.
Office, Room 34, City Hall. Telephone 507.

CITY PHYSICIAN.

LEWIS L. BRYANT.
Residence, 930 Massachusetts Avenue. Telephone 522-2.
Office, Central Square Building.

FENCE VIEWERS.

Colin Chisholm	343½ Broadway.
Lewis M. Hastings	City Hall.
William H. Gray	City Hall.

Telephones, 471, 125.

SCHOOL COMMITTEE.

DAVID T. DICKINSON, Mayor . *Chairman, ex-officio.*
Term, three years.

Ward One.

Charles H. Thurston . . .	Term expires 1901.
Frank W. Taussig . . .	Term expires 1902.
William Taggard Piper . .	Term expires 1903.

Ward Two.

George W. Bicknell . . .	Term expires 1901.
Robert O. Fuller	Term expires 1902.
Caroline L. Edgerly . . .	Term expires 1903.

Ward Three.

Robert Walker	Term expires 1901.
Edward B. Malley	Term expires 1902.
Philip M. Fitzsimmons	Term expires 1903.

Ward Four.

Sherman R. Lancaster	Term expires 1901.
Mary E. Mitchell	Term expires 1902.
Charles F. Wyman	Term expires 1903.

Ward Five.

Arthur P. Stone	Term expires 1901.
Seth N. Gage	Term expires 1902.
Carolyn P. Chase	Term expires 1903.

Secretary and School Supply Agent.

Sanford B. Hubbard.

Superintendent of Schools.

Francis Cogswell.

Office Hours: 8.30 A. M. to 5 P. M.

Office, Rooms 13, 14 and 15, City Hall. Telephone 445.

CEMETERY DEPARTMENT — CEMETERY COMMISSIONERS.

George S. Saunders . . . *Chairman.*

Term, three years.

Herbert A. Chase	Term expires 1902.
George S. Saunders	Term expires 1902.
William A. Bertsch	Term expires 1903.
Charles O. Welch	Term expires 1903.
Nathan C. Lombard	Term expires 1904.
John H. H. McNamee	Term expires 1904.

Edward J. Brandon . . . *Clerk of the Board.*

Office, Rooms 8 and 9, City Hall. Telephone 419.

Charles S. Childs . . . . *Supt. of Cemetery.*

Office Hours: at Cemetery, 8 A. M. to 5 P. M.

Office at Cemetery on Coolidge Avenue. Telephone 289-3.

PERSONS TO CAUSE TO BE PROPERLY INTERRED THE BODIES OF SOLDIERS AND SAILORS.

John Donelan. William H. Eveleth.
Eben W. Pike. Edward J. Brandon.

PUBLIC LIBRARY DEPARTMENT — TRUSTEES OF CAMBRIDGE PUBLIC LIBRARY.

WILLIAM TAGGARD PIPER . . *President.*

For one year.

William T. Piper of School Committee.

Citizens at large. Term, three years.

Albert M. Barnes	Term expires 1902.
Jabez Fox	Term expires 1902.
Augustine J. Daly	Term expires 1903.
William J. Rolfe	Term expires 1903.
Thomas W. Higginson . . .	Term expires 1904.
Edward C. Wheeler . . .	Term expires 1904.

William L. R. Gifford . . .	*Secretary and Treasurer.*
William L. R. Gifford . . .	*Librarian.*

Library Open: 10 A. M. to 8 P. M.
Reading Room: 10 A. M. to 10 P. M.
Sunday, 2 to 10 P. M.
Office at Library Building, Broadway, Irving, and Trowbridge Streets.
Telephone 610.

WATER WORKS DEPARTMENT — CAMBRIDGE WATER BOARD.

WILLIAM B. DURANT . . . *President.*

Term, five years.

William B. Durant . . .	Term expires 1901.
Stillman F. Kelley . . .	Term expires 1902.
Wellington Fillmore . . .	Term expires 1903.
Edmund H. Stevens . . .	Term expires 1904.
George H. Howard . . .	Term expires 1905.

Walter H. Harding . . .	*Clerk of the Board.*
Edwin C. Brooks	*Supt. of Water Works.*
Walter H. Harding . . .	*Water Registrar.*

Office Hours: 8 A. M. to 4 P. M.
Office, Rooms 5 and 6, City Hall. Telephone 430.

REGISTRARS OF VOTERS.

James Cox . . . . . *Chairman.*

Term, four years.

Isaac S. Pear	Term expires 1901.
Frederick W. Macdonald . .	Term expires 1902.
James Cox	Term expires 1903.
John P. McCormick . . .	Term expires 1904.

Isaac S. Pear . . . . . *Clerk.*

Office, Central Square Building.

PARK DEPARTMENT — PARK COMMISSIONERS.

George Howland Cox . . *President.*

Term, three years.

George Howland Cox . . .	Term expires 1901.
William M. Richardson . .	Term expires 1902.
Edmund Reardon	Term expires 1903.

Howard E. Whiting, *Clerk of the Board and General Superintendent.*

Office Hours: 8 A. M. to 4 P. M.

Office, Room 10, City Hall. Telephone 650.

SINKING FUND DEPARTMENT — COMMISSIONERS OF THE SINKING FUNDS.

Charles H. Saunders . . . *Chairman.*

Term, three years.

Frank A. Allen	Term expires 1901.
Dana W. Hyde	Term expires 1901.
John C. Bullard	Term expires 1902.
George H. Howard . . .	Term expires 1902.
Andrew J. Lovell	Term expires 1903.
J. Henry Russell	Term expires 1903.

John McDuffie . . . . *Secretary.*

William W. Dallinger . . . *Treasurer.*

OVERSEERS OF THE POOR DEPARTMENT—OVERSEERS OF THE POOR.

CHARLES WALKER . . . . *Chairman.*

Term, five years.

Charles Walker	Term expires 1901.
John T. Shea	Term expires 1902.
Alexander Millan	Term expires 1903.
. . . .	Term expires 1904.
Charles Bullock	Term expires 1905.

David P. Muzzey . . . . *Secretary.*
Vespasian Danforth . . . *Visitor.*

Martin L. Eldridge, *Superintendent of City Home.*

Office Hours (at Central Square Building): 8 A. M. to 4 P. M.

Telephones: { Office, 660. / City Home, 29 Arlington.

TRUSTEES OF THE DOWSE INSTITUTE.

FRANK A. ALLEN . . . . *President.*

David T. Dickinson . . . *Mayor, ex-officio.*
John D. Merrill, *President of Common Council, ex-officio.*
George Howland Cox . . . Willard A. Bullard.
Frank A. Allen.

GEORGE HOWLAND COX . . *Secretary.*

TRUSTEES OF THE { SANDERS TEMPERANCE FUND. / BRIDGE CHARITABLE FUND.

The Mayor, the President of the Board of Aldermen, and the President of the Common Council,

Ex-officiis.

POLICE DEPARTMENT.

Chief of Police.

LOTHROP J. CLOYES.

Deputy Chief.

WILLIAM F. BATCHELDER.

Clerk.

CHARLES W. PRIEST.

Captains of Police.

DISTRICT I.	DISTRICT II.	DISTRICT III.
MARK J. FOLSOM.	FREDERICK B. PULLEN.	JOHN F. MURRAY.

Chief Inspector.

Capt. JAMES E. MURRAY.

Assistant Inspector.

Lieut. HENRY C. JONES.

Sergeants of Police.

DISTRICT I.	DISTRICT II.	DISTRICT III.
DANIEL CALLAHAN.	JAMES S. ALEXANDER.	CHARLES L. PIKE.
DAVID A. STEVENS.	MICHAEL J. CONRY.	WILLIAM MULLETT.

Patrolmen.

(With Badge and Hat Numbers.)

DISTRICT I.

No. of Badge.		Hat No.	No. of Badge.		Hat No.
60	Aberle, Charles F.	143	67	Leahy, Denis F.	105
7	Barrington, George T.	107	44	Marston, Charles C.	130
28	Belcher, Edward F.	128	55	Maloy, John P.	126
53	Blen, Elbridge S.	113	10	McBride, John J.	110
69	Brennan, Michael J.	131	27	McCann, Charles J.	141
22	Campbell, Thomas M.	122	1	McCrehan, John E.	101
20	Corcoran, Timothy,	120	18	McNulty, James E.	118
25	Comerford, Edward J.	125	45	Murray, Patrick F.	133
66	Cox, James A.	119	85	Presho, Charles H.	109
40	Doyle, Patrick	112	83	Rice, Ralph R.	136
8	Furbush, Joseph H.	108	62	Roper, Bernard J.	134
2	Graves, William H.	102	21	Smyth, George	121
95	Hill, William H.	123	24	Temple, Joseph C.	124
49	Hiscock, Simon D.	140	42	Wells, John H.	114
47	Hixon, Robert T.	104	80	Welch, Edward J.	127
58	Holt, James H. H.	111	3	White, Orrin B.	103
17	Jewett, Dexter	117	48	Winslow, John E.	115
32	Keaney, James M.	132	79	Wyman, Charles W.	137
35	Ladd, Fred L.	135			

DISTRICT II.

No. of Badge.		Hat No.	No. of Badge.		Hat No.
51	Aylward, Richard H.	233	16	McCabe, Edward J.	228
56	Coulter, John	203	72	McCaffrey, Bernard	215
34	Culhane, Michael	216	26	McElroy, James L.	226
68	Deehan, John W.	202	13	McKeen, Benjamin,	213
50	Dynan, Thomas F.	222	15	McKeown, William	230
86	Ellis, Frederick M.	232	64	McMennimen, William H.	218
74	Forristall, James B.	207	43	Mullen, Robert E.	210
38	Ginty, Michael A.	209	4	Neilan, Michael,	204
81	Gordon, Herbert,	211	89	Parks, Joseph W.	205
41	Griffiths, John J.	225	59	Real, Thomas J.	229
82	Hackett, Mortimer M.	208	70	Robinson, Fred. A.	217
77	Hezlitt, John A.	221	31	Robertson, William H.	231
14	Higgins, Benjamin F.	214	73	Rowe, Thomas P.	220
33	Howe, William H. H.	212	78	Rowe, William H.	201
23	Law, Frederick W.	223	65	Shaughnessy, John E.	206
88	Mahoney, Geo. J.	234	61	Sullivan, Cornelius	227

DISTRICT III.

No. of Badge.		Hat No.	No. of Badge.		Hat No.
5	Apel, Frederick	305	39	McCorry, Joseph F.	304
36	Dunlea, Patrick F.	136	76	Mullins, William N.	306
71	Counihan, Daniel F.	312	75	Mulvaney, Simon J.	318
9	Hall, James P.	309	19	Scully, Benjamin C.	307
37	Hurley, Patrick F.	310	46	Scobey, Frank W.	301
87	Kelleher, John	313	63	Skelley, John W.	308
30	McCarthy, Jeremiah	314	57	Walsh, David F.	316

Reserve Officers.

No. of Badge.		Hat No.	No. of Badge.		Hat No.
98	Aberle, William H.	142	94	Deihl, Antone B.	315
91	Leahy, Timothy F.	139	92	Walsh, David L.	149
93	Neilan, John P.	323	6	Roberts, John W.	235
96	McFadden, Richard M.	145	54	Bradley, Charles E.	116
11	Horrigan, Edward F.	303	29	LaMarche, Frank D.	237

Drivers of Patrol Wagons.

DISTRICT II.	DISTRICT III.
John T. Cook.	John Sullivan.
John McCauley.	John Coffey.

Ambulance Drivers.

Dow, Warren H.	Sherman, George E.

Matrons.

Mrs. E. S. Haines.	Mrs. A. M. Stearns.

Keeper of Lock-ups.

Lothrop J. Cloyes.

Person to receive Information of Damages by Dogs.

(Ch. 454, Acts 1889.)

Lothrop J. Cloyes.

TRUANT OFFICERS.

Lucian S. Cabot.
John Carmichael.
Jeremiah Murphy.
William H. Porter.

CONSTABLES.

David J. Barry, Jr.
James A. Brown.
Stephen V. A. Carey.
John Foster.
Joseph Fox.
Frank A. Hagar.
Walter F. Hayward.
Warren Ivers.
Joseph James.
Frank H. Lambert.
James E. Lennon.
John T. Lynch.
Daniel J. Mills.
Francis A. McLaughlin.
John J. Rafferty.
Leander Sampson.
Frank E. Shaw.
Thomas R. Sheridan.
Arthur M. Stewart.
John Taylor.
John H. Tukey.
Frank H. Wait.

UNDERTAKERS.

David F. Corcoran.
John W. Coveney.
Daniel P. Danehy.
Edwin L. Derby.
John R. Derby.
Arthur S. Fudge.
David Fudge.
Edward J. Fudge.
Fred L. Hutchins.
George H. Kelley.
Allen J. Litchfield.
Horace D. Litchfield.
Judson Litchfield.
John J. Loan.
C. Henry Lockhart.
Abiel E. Long.
George W. Long.
James F. Mullen.
John J. Murphy.
William N. Neally.
David J. Nelligan.
T. Louis O'Brien.
George F. Ricker.
Theresa M. Roles.
John J. Ross.
William Ross, Jr.
Daniel P. Shea.
James J. Shea.
John T. Shea.
Michael J. Shea.
Ralph Smith.
William Stinson.
William A. Taylor.
Benjamin F. Wyeth.
Henry A. Wyeth.

AUCTIONEERS.

John J. Ahern.
Stephen V. A. Carey.
Wilbur S. Clarke.
John W. Coveney.
Patrick Crowley.
Henry J. Cunningham.
Watson G. Cutter.
Jeremiah F. Donovan.
William R. Ellis.
William L. Frankenstein.
Leander M. Hannum.
Edward R. Harris.
Stephen H. Harrington.
J. Lewis Hayden.
Frank L. Howe.
F. Louis John.
William Kelley.
Samuel R. Knights.
Frank H. Lambert.
James E. Lennon.
John T. Lynch.
John W. Mahady.
Henry L. Marcy.
Cornelius J. McArthur.
John B. McKenna.
Charles L. Phillips.
Thomas C. Scottron.
Frank E. Shaw.
Fred W. Sleeper.
Thomas W. Spencer.
Rolla E. Stockton.
Francis Traynor.
Charles J. Walker.
Walter C. Wardwell.

FIELD DRIVERS.

Charles F. Aberle.
William H. Aberle.
Richard H. Alyward.
Frederick Apel.
George T. Barrington.
Edward F. Belcher.
Elbridge S. Blen.
Charles E. Bradley.
Michael J. Brennan.
Thomas M. Campbell.
Timothy Corcoran.
James A. Cox.
John Coulter.
Michael Culhane.
Edward J. Comerford.
Daniel F. Counihan.
Antone B. Deihl.
John W. Deehan.
Patrick Doyle.
Patrick F. Dunlea.
Thomas F. Dynan.
Frederick M. Ellis.
James B. Forristall.
Joseph H. Furbush.
Michael A. Ginty.
Herbert Gordon.
William H. Graves.
John J. Griffiths.
Mortimer M. Hackett.
James P. Hall.
John A. Hezlitt.
Benjamin F. Higgins.
William H. Hill.
Simon D. Hiscock.
Robert T. Hixon.
James H. H. Holt.
Edward F. Horrigan.
William H. H. Howe.
Patrick F. Hurley.
Dexter Jewett.

James M. Keaney.
John Kelleher.
Fred L. Ladd.
Frank D. La Marche.
Frederick W. Law.
Dennis F. Leahy.
Timothy F. Leahy.
George J. Mahoney.
Charles C. Marston.
John P. Maloy.
Edward J. McCabe.
Bernard McCaffrey.
John J. McBride.
Joseph F. McCorry.
Jeremiah McCarthy.
John E. McCrehan.
Charles J. McCann.
James L. McElroy.
Richard M. McFadden.
William F. McKeown.
William H. McMennimen.
James E. McNulty.
Robert E. Mullen.
William N. Mullins.
Simon J. Mulvaney.
Patrick F. Murray.
John P. Neilan.
Michael Neilan.
Joseph W. Parks.
Charles H. Presho.
Thomas J. Real.
Ralph R. Rice.
Bernard J. Roper.
Frederick A. Robinson.
William H. Robertson.
John W. Roberts.
Thomas P. Rowe.
William H. Rowe.
Frank W. Scobey.
Benjamin C. Scully.
John E. Shaughnessy.
John W. Skelley.
George Smyth.
Cornelius Sullivan.
Joseph C. Temple.
David H. Walsh.
David L. Walsh.
Edward J. Welch.
John H. Wells.
Orrin B. White.
John E. Winslow.
Charles W. Wyman.

MEASURERS OF WOOD AND BARK.

Ernest P. Cook.
Herbert T. Lawrence.
Robert A. Parry.
David C. Proudfoot.
Joseph P. Quilty.
George Stephens.

POUND KEEPER.

Robert Holden.

COMMITTEE FOR THE PRESERVATION OF FISH.

Edwin C. Brooks.
Lewis M. Hastings.
Theodore L. Pike.

WEIGHERS OF COAL.

Clarence G. Bartlett.
Eugene A. F. Burtnett.
Silas E. Buck.
James W. Coleman.
Ernest P. Cook.
Warren Crane.
Edwin H. Harnden.
Stanley Jennison.
Harry W. Marston.
John Moynahan.
Walter H. Nay.
David Proudfoot.
David C. Proudfoot.
George H. Rugg.
Alexander Russell.
Edward A. Smith.
George M. Smith.
Leslie M. Snow.

INSPECTORS OF JUNK SHOPS, PAWNBROKERS' SHOPS, AND SECOND HAND STORES AND DEALERS.

Mark J. Folsom.
John F. Murray.
James E. Murray.
Frederick B. Pullen.

PUBLIC WEIGHERS.

Robert C. Bird.
Ernest E. Bradbury.
Edward J. Carroll.
Isaac A. Chandler.
Wesley B. Churchill.
Edward B. Dale.
Arthur B. Dodge.
John E. Fay.
James A. Ferguson.
Alexander S. Ford.
Robert Holden.
Nathan H. Holbrook.
Edward F. Mahady.
William Maloney.
Fred W. McFarland.
Melvin McFarland.
John F. Reilly.
Thomas H. Shea.
John M. Thayer.

HAY WEIGHER.

Edmund I. Train.

INSPECTOR OF PRESSED OR BUNDLED HAY OR STRAW.

Harvey O. Titus.

MEASURER OF GRAIN.

Albert F. Roberts.

PERSON

To seize all baskets, measures or vessels used or intended to be used in measuring charcoal, as provided in Sect. 88, Chap. 60, P. S.

Albert F. Roberts.

MEASURER AND SURVEYOR.

Henry L. Hale.

SURVEYORS OF MECHANICS' WORK.

Hosea W. Leach.

Charles A. Mason.

STATE AND CITY ELECTIONS

HELD

NOVEMBER 6, 1900, DECEMBER 11, 1900

RESPECTIVELY

VOTES CAST FOR ELECTORS AT LARGE FOR PRESIDENT AND VICE-PRESIDENT, GOVERNOR, REPRESENTATIVE IN CONGRESS, COUNCILLOR, SENATORS, COUNTY COMMISSIONER, REGISTER OF DEEDS, COUNTY TREASURER AND REPRESENTATIVES IN THE GENERAL COURT, FOR CITY OFFICERS, ON THE QUESTION OF ACCEPTING THE LAW WITH REFERENCE TO FIREMEN'S PENSIONS, AND ON THE LICENSE QUESTION.

STATE ELECTION

ELECTORS AT LARGE.

	BRYAN.		DEBS.		MALLONEY.		McKINLEY.		WOOLLEY.			
	Thomas Wentworth Higginson.	Thomas J. Gargan.	Charles S. Grieves.	Herbert L. Wood.	Patrick O'Keefe.	John A. Henley.	Roger Wolcott.	William Whiting.	Edward Kendall.	John Bascom.	Scattering.	Blank.
Ward 1.	148	148	2	2	1	1	203	202	4	4	15	96
	139	139	1	1	1	1	241	241	5	5	14	80
	261	261	1	1			116	116				90
	61	61	1	1	1	1	264	264	1	1		20
	119	118	5	5	1	1	394	392	6	6	11	62
	728	727	10	10	4	4	1,218	1,215	16	16	40	348
Ward 2.	598	598	9	9	5	5	140	140	4	4		170
	311	311	9	9	4	4	209	209	5	5	1	107
	187	187	2	2	4	4	123	123	3	3		100
	160	160	10	10	4	4	258	258	16	16		80
	62	62	3	3	1	1	396	396	9	8	3	36
	280	280	7	7	2	2	184	184	5	5		60
	261	261	7	7			386	385	9	9	2	89
	1,859	1,859	47	47	20	20	1,696	1,695	51	50	6	642
Ward 3.	274	274	5	5	1	1	90	89	2	2		89
	336	336	4	4	7	7	119	118	7	7		105
	331	331	2	2	1	1	59	59	2	2		90
	259	259	2	2	4	4	87	87		1		75
	1,200	1,200	13	13	13	13	355	353	11	12		359
Ward 4.	94	94	5	5	2	2	166	166	10	10		50
	97	97	8	8			170	170	6	6		32
	106	106	3	3	1	1	119	119	6	6		48
	82	82	2	2			302	302	15	15		34
	55	55	6	6			197	197	12	12	1	39
	45	45	2	2			293	293	11	11		56
	142	142	5	5			151	151	2	2		50
	114	114	6	6	2	2	160	160	9	9		40
	735	735	37	37	5	5	1,558	1,558	71	71	1	349
Ward 5.	61	61	3	3			297	296	10	10	1	18
	226	225	3	3	4	4	160	160	4	3	5	91
	175	175	1	1			320	320	8	8		70
	265	265			5	5	113	113	3	3		110
	727	726	7	7	9	9	890	889	25	24	6	289
	5,249	5,247	114	114	51	51	5,717	5,710	174	173	53	1,987

CANDIDATES FOR

Names of Candidates.	Governor.								Representative in Congress.					Councillor.					Senator Second Middlesex Dist.						Senator Second Suffolk Dist.			
	Whole Number.	Michael T. Berry.	Charles H. Bradley.	W. Murray Crane.	John M. Fisher.	Robert Treat Paine, Jr.	Scattering.	Blank.	Samuel W. McCall.	Philip T. Nickerson.	William E. Stacey.	Scattering.	Blank.	Thomas C. Brophy.	John W. Lucas.	Henry D. Yerxa.	Scattering.	Blank.	Edward B. James.	John E. Parry.	James H. Roberts.	William J. Ryan.	Scattering.	Blank.	John F. Briry.	David B. Shaw.	John T. Shea.	Blank.
Ward 1, Precinct 1	413	12	9	222	3	117	1	49	235	117	9		52	7	113	223		70	131	206	10	14		52				
" 1, " 2	434	4	5	252	4	123		46	268	106	11		49	7	101	242		84	127	225	8	8		66				
" 1, " 3	423	5	8	100	1	234		75	112	214	11		86	9	203	99		112	237	90	6	9		81				
" 1, " 4	338	3	3	257	2	53		20	258	47	7		26	5	51	251		31	72	227	8	4		27				
" 1, " 5	560	6	6	404	3	98		43	424	89	10		37	8	88	406		58	116	365	16	8		55				
Ward 1, Totals....	2,168	30	31	1,235	13	625	1	233	1,297	573	48		250	36	556	1,221		355	683	1,113	48	43		281				
Ward 2, Precinct 1	841	30	22	125	3	433		228	147	406	32		256	31	402	94		314	429	115	9	27		261				
" 2, " 2	592	26	19	192	7	237		111	212	226	32		122	35	202	183		172	247	168	20	23		134				
" 2, " 3	369	9	7	108	4	142		99	104	139	8		118	11	121	94		143	145	91	3	12		118				
" 2, " 4	488	14	14	249	11	126		74	275	128	14		71	27	108	256		97	151	226	17	11		83				
" 2, " 5	490	2	5	380	8	52		43	395	52	4		39	3	50	384		53	67	359	15	4		45				
" 2, " 6	508	3	17	169	5	217		97	186	193	32	1	96	11	172	175		150	212	163	8	16	1	108				
" 2, " 7	708	7	10	400	5	223		63	419	205	8		76	38	164	403	1	102	252	349	11	6		90				
Ward 2, Totals....	3,996	91	94	1,623	43	1,430		715	1,738	1,349	130	1	778	156	1,219	1,589	1	1,031	1,503	1,471	83	99	1	839				

Ward 3, Precinct 1	416	4	11	88	2	226		85	99	207	15		95	17	186	92		121								47	72	259	38
" 3, " 2	525	13	15	150	7	232		108	123	244	37		121	30	212	123		160								63	95	325	42
" 3, " 3	440	11	17	54	1	270		87	74	257	11		98	17	246	55		122								24	95	284	37
" 3, " 4	390	18	11	78	3	192		88	84	174	24		108	20	158	80		132								33	72	239	46
Ward 3, Totals....	1,771	46	54	370	13	920		368	380	882	87		422	84	802	350		535								167	334	1,107	163
Ward 4, Precinct 1	302	10	5	150	8	76		53	161	79	12		50	12	68	156		66	81	138	10	10		63					
" 4, " 2	297	4	9	172	4	74		34	177	71	11		38	9	65	168		55	91	146	6	7		47					
" 4, " 3	259	4	3	118	6	93		35	123	93	4		39	4	88	121		46	105	113	8	3		30					
" 4, " 4	418	3	1	318	10	69		17	315	60	9		34	2	61	308		47	68	287	13	7		43					
" 4, " 5	290	5	8	199	9	45		24	209	46	9		26	6	43	200		39	55	187	15	4		29					
" 4, " 6	379	4	2	276	14	41		42	286	42	8		43	6	32	288		53	53	269	11	5		41					
" 4, " 7	325	3	6	158	2	119		37	158	107	8		52	12	90	158		65	119	143	6	7		50					
" 4, " 8	311	7	9	152	6	100		37	156	94	19		42	16	86	160		49	102	143	10	15		41					
Ward 4, Totals....	2,581	40	43	1,543	59	617		279	1,585	592	80		324	67	535	1,559		420	674	1,426	79	58		344					
Ward 5, Precinct 1	380	1	4	295	5	56		19	309	44	8		19	2	54	298		26	61	282	19	1		17					
" 5, " 2	444	7	5	211	2	165		54	216	151	21		56	49	116	207		72	172	213	5	9		45					
" 5, " 3	539	6	4	325	2	147		55	335	124	19		61	5	124	337		73	122	350	6	5		56					
" 5, " 4	441	20	5	111	2	228		75	118	185	55	1	82	23	186	122	1	109	176	193	1	15		56					
Ward 5, Totals....	1,804	34	18	942	11	596		203	978	504	103	1	218	79	480	964	1	280	531	1,038	31	30		174					
Grand Totals.....	12,320	241	240	5,713	139	4,188	1	1,798	5,978	3,900	448	2	1,992	422	3,592	5,683	2	2,621	3,391	5,048	241	230	1	1,638					

Names of Candidates.	Register of Deeds.				County Treasurer.				County Commissioner.			
	Edwin O Childs.	Charles A. Johnson.	Scattering.	Blank.	Albert M. Grant.	Joseph O. Hayden.	Scattering.	Blank.	Truman W. Hagar.	John O'Donnell.	Samuel O. Upham.	Blank.
Ward 1, Precinct 1.....	235	52		126	57	231		125	106	17	212	78
" 1, " 2.....	266	37	1	130	41	257	1	135	107	11	236	80
" 1, " 3.....	118	92		213	89	112		222	208	14	90	111
" 1, " 4.....	269	13		56	18	259		61	54	4	245	35
" 1, " 5.	407	40	1	112	38	407		115	90	8	393	69
Ward 1, Totals.....	1,295	234	2	637	243	1,266	1	658	565	54	1,176	373
Ward 2, Precinct 1.....	166	170		505	173	154		514	375	49	116	301
" 2, " 2.....	195	96		301	108	195		289	208	38	174	172
" 2, " 3.....	96	58		215	59	99		211	131	16	87	135
" 2, " 4.....	268	59		161	67	255		166	126	23	246	93
" 2, " 5.....	384	24		82	23	389		78	47	6	386	51
" 2, " 6.....	192	50		266	101	169		238	178	22	158	150
" 2, " 7.....	437	73		198	77	424		207	208	9	368	123
Ward 2, Totals.....	1,738	530		1,728	608	1,685		1,703	1,273	163	1,535	1,025
Ward 3, Precinct 1.....	123	92		201	93	115		208	197	18	84	117
" 3, " 2.....	139	116		270	117	129		279	230	34	106	155
" 3, " 3.....	88	123		229	121	86		233	240	33	51	116
" 3, " 4.....	97	83		210	80	89		221	162	31	69	128
Ward 3, Totals.....	447	414		910	411	419		941	829	116	310	516
Ward 4, Precinct 1.....	156	41		105	43	149		110	69	14	149	70
" 4, " 2.....	175	29		93	35	173		89	71	10	159	57
" 4, " 3.....	132	30		97	34	128		97	90	7	117	45
" 4, " 4.....	318	21		79	21	320		77	54	10	309	45
" 4, " 5.....	208	14		68	15	200		75	40	6	207	37
" 4, " 6.....	287	20		72	19	279		81	39	7	275	58
" 4, " 7.....	167	35		123	37	158		130	99	13	154	59
" 4, " 8.....	155	46		110	50	151		110	95	14	145	57
Ward 4, Totals.....	1,598	236		747	254	1,558		769	557	81	1,515	428
Ward 5, Precinct 1.....	312	24		44	24	307		49	54	6	290	30
" 5, " 2.....	226	61		157	55	228		161	153	14	207	70
" 5, " 3.....	347	59		133	67	342		130	176	11	278	74
" 5, " 4.....	133	103		205	114	127		200	203	27	104	107
Ward 5, Totals.....	1,018	247		539	260	1,004		540	586	58	879	281
Grand Totals.....	6,096	1,661	2	4,561	1,776	5,932	1	4,611	3,810	472	5,415	2,623

CANDIDATES FOR REPRESENTATIVES.

Names of Candidates.	1st Middlesex.				2nd Middlesex.								3rd Middlesex.				4th Middlesex.						5th Middlesex.			
	Fred W. Moore.	James J. Myers.	Scattering.	Blank.	Samuel W. Bailey.	Charles M. Carpenter.	Jeremiah F. Donovan.	James A. Montgomery.	Clement G. Morgan.	Francis Traynor.	Scattering.	Blank.	Jonas F. Capelle.	Cornelius Minihan.	Roscoe G. Watson.	Blank.	Thomas Dobbs.	Eugene M. Flanigan.	Eben H. Googins.	William J. Rounds.	Scattering.	Blank.	Albert S. Apsey.	Frederick S. Dietrick.	Scattering.	Blank.
Ward 1, Precinct 1	114	257		42																						
" 1, " 2	132	269	1	32																						
" 1, " 3	238	137		48																						
" 1, " 4	87	231		20																						
" 1, " 5	127	397		36																						
Ward 1, Totals ...	698	1,291	1	178																						
Ward 2, Precinct 1					142	12	521	562	105	12		328														
" 2, " 2					166	13	341	272	158	22		212														
" 2, " 3					79	5	195	154	126	6		173														
" 2, " 4					216	25	172	139	187	19		218														
" 2, " 5					352	22	76	57	320	9		144														
" 2, " 6					161	9	237	231	142	24	1	211														
" 2, " 7					346	18	263	243	297	25		224														
Ward 2, Totals....					1,462	104	1,805	1,658	1,335	117	1	1,510														
Ward 3, Precinct 1													106	211	13	86										
" 3, " 2													153	240	15	117										
" 3, " 3													85	268	9	78										
" 3, " 4													107	196	4	83										
Ward 3, Totals....													451	915	41	364										
Ward 4, Precinct 1																	57	62	152	133		200				
" 4, " 2																	51	48	182	157		156				
" 4, " 3																	67	49	135	123	2	142				
" 4, " 4																	45	41	279	310		161				
" 4, " 5																	27	20	208	200	2	123				
" 4, " 6																	26	20	288	248		176				
" 4, " 7																	79	66	169	135	1	200				
" 4, " 8																	66	58	164	150	3	181				
Ward 4, Totals....																	418	364	1,577	1,456	8	1,339				
Ward 5, Precinct 1																							258	96	1	25
" 5, " 2																							189	211		44
" 5, " 3																							315	170		54
" 5, " 4																							149	231		61
Ward 5, Totals....																							911	708	1	184

CITY ELECTION

DECEMBER 11, 1900.

Votes cast for City Officers, on the License Question, and on the Question of Pensioning Firemen.

Ward and Precinct.	Mayor.					License.			Accepting Chap. 246, Acts of 1900.		
	Whole Number.	David T. Dickinson.	John W. Ducharme.	Walter C. Wardwell.	Scattering.	Blank.	Yes.	No.	Blank.	Yes.	No.	Blank.
Ward 1, Precinct 1....	390	205	2	169		14	110	252	28	173	69	148
" 1, " 2....	412	199	4	199		10	134	248	30	218	64	130
" 1, " 3....	432	176	3	236		17	244	157	31	242	51	139
" 1, " 4....	302	101	1	187		13	52	240	10	144	51	107
" 1, " 5....	508	227	2	267		12	74	414	20	253	84	171
Ward 1, Totals	2,044	908	12	1,058		66	614	1,311	119	1,030	319	695
Ward 2, Precinct 1....	742	480	19	211		32	459	224	59	370	73	299
" 2, " 2....	484	239	13	214		18	220	233	31	251	59	174
" 2, " 3....	319	185	8	109	1	16	170	96	53	151	24	144
" 2, " 4....	432	185	6	223		18	127	284	21	228	61	143
" 2, " 5....	481	169	5	292		15	58	402	21	245	96	140
" 2, " 6....	457	255	15	163	1	23	163	257	37	233	62	162
" 2, " 7....	615	315	9	266	1	25	140	453	22	310	107	198
Ward 2, Totals....	3,530	1,828	75	1,478	3	147	1,337	1,949	244	1,788	482	1,260
Ward 3, Precinct 1....	395	203	2	170	2	18	244	115	36	205	38	152
" 3, " 2....	477	293	16	142	1	26	265	166	46	242	58	177
" 3, " 3....	426	234	7	164		21	278	123	25	232	44	150
" 3, " 4....	361	230	9	107		15	226	111	24	167	56	137
Ward 3, Totals....	1,659	960	34	583	3	80	1,013	515	131	846	197	616
Ward 4, Precinct 1....	260	106	5	140		9	96	151	13	129	45	86
" 4, " 2....	282	105	3	164		10	88	179	15	151	53	78
" 4, " 3....	253	105	6	130		12	106	130	17	138	28	87
" 4, " 4....	391	167	5	212		7	65	315	11	185	81	125
" 4, " 5....	286	105	3	172		6	72	204	10	160	39	87
" 4, " 6....	353	106		234		13	58	283	12	178	57	118
" 4, " 7....	311	153	6	144		8	109	184	18	156	63	92
" 4, " 8....	311	156	4	143		8	121	175	15	173	51	87
Ward 4, Totals....	2,447	1,003	32	1,339		73	715	1,621	111	1,270	417	760
Ward 5, Precinct 1....	376	232	1	138	1	5	41	323	12	165	87	124
" 5, " 2....	447	238	4	190		15	163	260	24	202	71	174
" 5, " 3....	501	209	2	281		9	119	364	18	258	90	153
" 5, " 4....	459	220	8	223		8	212	209	38	238	54	167
Ward 5, Totals....	1,783	899	15	832	1	37	535	1,156	92	863	302	618
Grand Totals.....	11,463	5,598	168	5,290	7	403	4,214	6,552	697	5,797	1,717	3,949

CANDIDATES FOR ALDERMEN.

NAMES OF CANDIDATES.	James F. Aylward.	Edgar P. Baker.	James T. Barrett.	Christian Beck.	Fred L. Beunke.	Herman Bird.	Gustave A. Blaschke.	William F. Brooks.	Hans L. Carstein.	Edward E. Chester.	John W. Coveney.	William R. Davis.	George H. Dinan.	Nils T. Fuglestad.	Timothy W. Good.	Albert H. Hall.	Charles W. Henderson.	James D. Hill.	Edward B. James.	Albert B. Long.	Frank McLaughlin.	Julius Meyers.	George A. Perkins.	Hamilton H. Perkins.	George E. Saunders.	William E. Stacey.	William M. Wadden.	Blank.
WARD 1.																												
Precinct 1.....	137	44	146	28	171	105	14	295	195	19	91	163	39	11	207	145	56	93	111	143	99	44	89	132	237	22	133	1,321
" 2.....	128	53	159	26	217	108	13	299	219	26	93	197	44	13	244	170	73	154	109	170	72	38	117	169	270	25	144	1,182
" 3.....	198	66	116	33	158	121	25	245	114	27	119	131	65	11	291	63	92	150	147	69	107	69	115	89	149	31	137	1,814
" 4.....	87	36	121	12	203	93	4	228	199	12	56	174	25	3	185	179	44	69	85	174	33	33	83	152	204	3	122	691
" 5.....	123	80	234	20	315	157	17	373	340	28	86	3 5	54	9	298	283	65	113	116	270	80	48	117	267	341	21	210	1,218
Ward 1 Totals.. ..	673	279	776	119	1,064	584	73	1,440	1,067	112	445	970	227	47	1,225	840	330	579	568	826	391	232	521	809	1,201	102	746	6,226
WARD 2.																												
Precinct 1.....	352	55	334	58	95	142	42	170	123	40	349	424	230	43	237	69	121	45	186	130	369	40	60	62	82	50	186	4,068
" 2.	227	82	153	74	148	174	49	175	135	57	158	269	124	41	172	112	88	47	103	136	187	55	61	89	108	56	165	2,079
" 3.....	158	38	81	33	60	91	20	98	63	24	103	156	80	17	99	58	40	27	73	53	122	20	33	43	48	31	96	1,744
" 4.....	218	131	131	42	252	192	21	214	174	37	107	209	63	15	166	132	111	51	122	153	108	84	71	129	146	22	154	1,497
" 5.....	184	120	181	26	364	250	10	312	309	31	82	255	41	9	226	242	127	60	107	258	61	116	89	258	272	13	201	1,087
" 6.....	227	66	150	40	148	143	21	166	139	36	169	244	105	22	192	107	90	45	108	144	176	65	45	97	101	22	193	1,966
" 7.....	284	108	254	59	323	268	26	347	311	30	159	324	100	18	288	250	125	72	156	295	141	81	105	242	266	27	275	1,820
Ward 2 Totals.....	1,650	600	1,284	332	1,390	1,260	189	1,482	1,254	255	1,127	1,881	743	165	1,380	970	702	347	855	1,169	1,164	471	464	920	1,023	221	1,270	14,261

WARD 3.																												
Precinct 1.....	155	37	143	31	85	69	25	107	111	24	229	95	295	20	109	63	47	30	58	70	79	29	46	55	76	29	78	2,150
" 2.....	230	42	225	41	81	86	44	130	123	35	253	131	253	26	122	69	61	45	119	67	103	31	53	62	87	30	101	2,596
" 3.....	216	30	228	32	59	63	39	105	79	29	270	100	283	18	124	48	42	19	72	63	92	25	44	38	60	27	113	2,368
" 4.....	150	28	207	32	59	40	36	90	80	30	224	118	201	21	101	52	37	22	56	68	85	13	31	44	62	33	64	1,987
Ward 3 Totals.....	751	137	803	136	284	258	144	432	393	118	976	444	1,032	85	456	232	187	116	305	268	359	98	174	199	285	119	356	9,101
WARD 4.																												
Precinct 1.....	117	96	65	35	150	109	24	115	95	41	82	98	44	16	110	54	71	30	51	65	52	54	43	72	67	26	62	1,016
" 2.....	105	136	79	20	190	135	11	137	108	25	49	112	32	11	118	81	117	37	81	86	39	73	58	105	105	18	78	956
" 3.....	115	91	74	19	137	107	13	116	82	15	64	83	44	8	129	56	127	26	53	63	56	56	50	85	61	20	74	959
" 4.....	127	146	109	18	294	190	10	217	192	28	70	188	28	11	196	155	219	41	80	152	48	96	90	233	161	14	130	1,058
" 5.....	104	133	82	26	215	135	27	137	126	30	57	119	22	9	124	84	169	28	78	90	26	82	56	133	88	12	66	888
" 6.....	98	157	93	21	287	166	11	194	187	32	60	162	29	11	141	141	134	37	88	152	25	122	73	195	160	20	79	1,008
" 7.....	143	58	99	24	161	129	16	163	114	22	86	115	54	8	204	71	91	54	62	86	75	83	51	98	102	24	117	1,111
" 8.....	135	84	91	31	171	117	26	133	116	20	65	103	46	20	180	62	133	36	65	81	56	83	51	108	82	29	77	1,220
Ward 4 Totals.....	944	901	692	194	1,605	1,088	138	1,212	1,020	213	533	980	299	94	1,202	704	1,061	289	558	775	377	649	472	1,029	826	163	683	8,216
WARD 5.																												
Precinct 1.....	98	61	163	19	258	116	8	267	291	28	75	231	42	14	240	258	62	57	75	232	57	25	77	208	259	18	147	749
" 2.....	186	45	187	31	180	117	17	311	268	31	119	207	65	19	260	226	57	102	122	175	82	28	95	151	207	38	157	1,434
" 3.....	171	99	174	32	245	170	25	278	378	35	118	224	47	24	229	242	124	79	114	205	94	67	90	180	236	50	127	1,654
" 4.....	229	67	156	54	111	102	37	218	254	71	172	180	107	34	219	114	131	87	115	112	122	36	103	81	124	143	79	1,791
Ward 5 Totals. ...	684	272	680	136	794	505	87	1,074	1,191	165	484	842	261	91	948	840	374	325	426	724	355	156	365	620	826	249	510	5,628
Grand Totals.....	4,702	2,189	4,235	917	5,137	3,695	631	5,640	4,925	863	3,565	5,117	2,562	482	5,211	3,586	2,654	1,656	2,712	3,762	2,646	1,606	1,996	3,577	4,161	854	3,565	43,432

CANDIDATES FOR COMMON COUNCIL.

WARD ONE.

	Stoughton Bell.	James Culhane.	Charles H. Lake.	John D. Merrill.	Thorndike Spalding.	George Stephens.	Timothy M. Sullivan.	Charles Walcott.	Scattering.	Blank.
Precinct 1	196	87	150	139	243	58	132	170		385
" 2	226	89	164	191	217	87	132	177		365
" 3	101	185	144	144	158	72	255	64		605
" 4	199	31	199	183	157	61	41	145	1	191
" 5	339	77	278	252	283	87	80	258		378
Totals	1,061	469	935	909	1,058	365	640	814	1	1,924

WARD TWO.

	J. Edward Barry.	William W. Bird.	Oscar A. Blomquist.	Thomas H. Heaton.	George H. Hodgkins, Jr.	Oscar A. Johnson.	Thomas T. Jones.	James J. Malley.	Thomas J. O'Brien.	George T. Page.	Herbert A. Rhoades.	Joseph E. Sharkey.	Michael J. Shea.	Blank.
Precinct 1	396	111	48	165	244	61	73	338	309	60	81	305	224	2,037
" 2	210	180	47	204	86	84	84	160	157	102	129	181	189	1,091
" 3	127	89	28	70	28	53	42	70	111	31	47	96	175	947
" 4	159	202	33	172	64	90	157	93	109	148	167	159	98	941
" 5	172	349	13	157	76	89	222	59	119	279	335	202	30	784
" 6	200	156	40	158	63	60	95	164	168	92	133	227	108	1,078
" 7	277	331	32	194	99	95	203	136	230	274	307	296	85	1,131
Totals	1,541	1,418	241	1,120	660	532	876	1,020	1,203	986	1,199	1,466	909	8,009

WARD THREE.

	John T. Hart.	John J. Mal ahan.	Daniel B. Shaughnessy, Jr.	John W. Skelley, Jr.	Alexander J. Sullivan.	William J. Sullivan.	Blank.
Precinct 1	233	21	259	137	232	24	279
" 2	274	42	297	200	209	47	362
" 3	265	19	303	176	217	34	264
" 4	187	77	195	174	164	57	229
Totals	959	159	1,054	687	822	162	1,134

CANDIDATES FOR COMMON COUNCIL—Concluded.

WARD FOUR.

	Solomon H. Barnard.	Edward E. Clark.	Edwin A. Cutting.	John F. Danskin.	Michael H. Flynn.	John D. Thompson.	Scattering.	Blank.
Precinct 1	85	111	95	91	141	127		390
" 2	127	139	106	153	96	135		372
" 3	74	124	92	107	121	95		399
" 4	199	263	223	243	107	164		365
" 5	116	159	135	183	89	180		282
" 6	180	226	178	265	60	160		343
" 7	97	143	113	145	156	159		431
" 8	89	147	90	150	126	194	1	447
Totals	967	1,312	1,032	1,337	896	1,214	1	3,029

WARD FIVE.

	Joseph O. Authier.	William H. Colman.	Howland Dudley.	William H. Lewis.	John Lynch.	Scattering.	Blank.
Precinct 1	56	247	249	267	71	1	237
" 2	99	274	174	225	190	1	378
" 3	142	261	229	275	175		421
" 4	161	271	58	111	238	1	537
Totals	458	1,053	710	878	674	3	1,573

CANDIDATES FOR SCHOOL COMMITTEE AND ASSESSOR.

WARD 1. For 3 years.			WARD 2. For 3 years.			WARD 3 For 3 years.		WARD 4 For 3 years.		WARD 5 For 3 years.		WARD 3. For 1 year.					WARD 4 For 1 year.		WARD 5. For 1 year.			ASSESSOR		
William Taggard Piper.	Scattering.	Blank.	Caroline L. Edgerly.	Scattering.	Blank.	Philip M. Fitzsimmons.	Blank.	Charles F. Wyman	Blank.	Carolyn P. Chase.	Blank.	Felix Conlan.	Clara B. McFall.	Robert Walker.	Scattering.	Blank.	Sherman R. Lancaster.	Blank.	Arthur P. Stone.	Scattering.	Blank.	John M. Davis.	Scattering.	Blank.
247		156	190		213	183	220	185	218	175	228	68	36	102		197	165	238	173		230	227		163
295		137	222		210	214	218	218	214	217	215	55	49	134		194	192	240	191		241	263		149
273		159	124		308	152	280	108	324	97	335	112	19	44		257	91	341	100		332	261		231
222		86	199		109	167	141	197	111	187	121	36	20	141		111	187	121	190		118	226		76
396		130	343		183	320	206	332	194	335	191	69	45	221		191	296	230	312		214	372		136
1433		668	1078		1023	1036	1065	1040	1061	1011	1090	340	169	642		950	931	1170	966		1135	1289		755
133		609	160		582	300	442	107	635	97	645	200	43	69		430	92	650	93		649	235		507
147		338	189		296	181	304	130	355	121	364	93	25	74		293	119	366	107	1	377	2 4	1	249
84		239	91		232	96	227	65	258	62	261	62	17	24		220	55	268	51		272	121		198
204		234	220		218	159	279	177	261	170	268	65	26	111		236	174	264	159		279	279		153
314		183	347		150	264	233	310	187	303	194	54	46	226		171	293	204	279		218	379		102
132	1	325	160	1	297	178	280	115	343	117	341	106	21	65	1	265	109	349	109		349	227	3	227
322		299	358		263	307	314	302	319	292	329	120	45	198		258	281	340	277		344	418	2	195
1336	1	2227	1525	1	2038	1485	2079	1206	2358	1162	2402	700	223	767	1	1873	1123	2441	1075	1	2488	1893	6	1631
107		291	106		292	201	197	90	308	86	312	165	13	80		140	85	313	82		316	161		234
111		367	103		375	251	227	82	396	77	401	172	23	104		179	84	394	79		399	185	2	290
95		331	85		341	236	190	73	353	65	361	167	19	72		168	69	357	78		348	165		261
91		275	83		283	200	166	77	289	71	295	118	10	60		178	65	301	66		300	137		224
404		1264	377		1291	888	780	322	1346	299	1369	622	65	316		665	303	1365	305		1363	648	2	1009
101		161	104		158	91	171	112	150	88	174	46	26	54		136	91	171	82		180	145		115
142		142	145		139	108	176	147	137	128	156	39	18	92		135	132	152	118		166	184		98
87		167	95		159	99	155	88	166	79	175	47	13	46		148	88	166	68		186	124		129
224		175	248		151	200	199	259	140	227	172	46	26	146		181	217	182	199		200	280		111
145		145	159		131	114	176	165	125	149	141	28	24	102		136	137	153	132		158	182		104
213		151	236		128	154	210	245	119	208	156	26	37	146		155	221	143	182		182	261		92
134		180	140		174	133	181	146	168	122	192	67	13	84		156	140	174	105	1	208	191		120
136		179	136		179	120	195	129	186	110	205	60	19	62		174	120	195	97		218	177		134
1182		1300	1263		1219	1019	1463	1291	1191	1111	1371	359	176	732		1215	1146	1336	983	1	1498	1544		903
275		112	257		130	232	155	259	128	280	107	56	35	169		127	237	150	264	1	122	278		98
254		208	227		235	230	232	229	233	239	223	93	41	129		199	194	268	219		243	260		187
265		247	259		253	221	291	248	264	290	222	68	37	169		238	225	287	252	1	259	318		183
142		317	124		335	170	289	129	330	144	315	112	16	52		279	91	368	124		335	208		251
936		884	867		953	853	967	865	955	953	867	329	129	519		843	747	1073	859	2	959	1064		719
5291	1	6343	5110	1	6524	5281	6354	4724	6911	4536	7099	2350	762	2976	1	5546	4250	7385	4188	4	7443	6438	8	5017

SPECIAL STATE ELECTION

(Third Middlesex Representative District).

FEBRUARY 5, 1901.

Vote cast for Representative in the General Court, as corrected by recount held February 7, 1901.

WARD THREE.

	Whole Number.	John J. Ahern.	George H. Dinan.	Blank.
Precinct 1	364	104	259	1
" 2	452	271	180	1
" 3	401	206	192	3
" 4	347	195	152	...
Total	1,564	776	783	5

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